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THE ————— ❁

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————— ❁ ————— FLORIST.

A WEEKLY JOURNAL FOR THE TRADE.

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VOLUME VI.

CHICAGO:
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1891.

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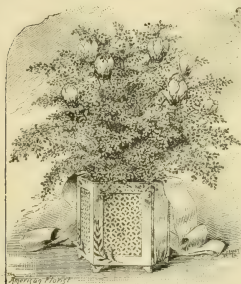
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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Afloatships, but we are the first to touch Unknown Seas."

Vol. VI.

CHICAGO AND NEW YORK, AUGUST 15, 1890.

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THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS.

SIXTH ANNUAL MEETING,

At BOSTON, MASS.,

August 19, 20, 21, 22, 1890.

J. M. JORDAN, St. Louis, Mo., president; M. H. NORTON, Boston, Mass., vice-president; WM. J. STEWART, W. Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

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RAILROAD RATES.—To secure the rate made by the passenger associations when going to the Boston convention this month you will pay full fare going and when purchasing your ticket ask for a certificate of such purchase from the agent selling you the ticket. This when countersigned by the secretary at the convention will be an order to the Boston agent to sell you a return ticket at one third fare. Ticket agents are supplied with blank forms for the certificates.

ANY FLORIST who can manage to get to Boston next week and fails to improve the opportunity will certainly miss a most profitable and enjoyable week.

Philadelphia to Boston.

The Florists' Club of Philadelphia will go to Boston via the Fall River Route. Those wishing to travel with the party should address for further information, John Westcott, 1514 Chestnut street, Philadelphia, or Chas. D. Ball, Holmesburg, Philadelphia.

New York to Boston.

The New Yorkers and Philadelphians will travel to Boston via the Fall River Line of steamers from New York, leaving the latter city at 5:30 p. m. August 18. The rate is one and one third fares for the round trip. Address applications for state-rooms to J. N. May, Summit, N. J. Cost of state-rooms is in addition to price of ticket, and are \$1 and \$2 each according to location. Each room accommodates two persons, and a saving can be effected by two arranging to occupy one room.

Chicago to Boston.

The Chicago Florist Club has arranged for special cars from Chicago to Boston via the Niagara Falls Short Line, leaving Chicago at 9 p. m. August 17 and arriving at Boston August 19 at 9:55 a. m. The rate of one and one-third fares for the round trip amounts to \$25.35 by this route. Owing to the very advantageous arrangements made for special sleeping cars, the Chicago Florist Club has decided to bear this sleeping car expense on the trip down, and cordially invites all western florists who can make it convenient to travel via of Chicago to make use of these cars, free of expense to them. Club members are entitled to the same privilege. Send applications to G. L. Grant, secretary, 54 La Salle street, Chicago.

From West of Chicago and St. Louis.

As the Western Passenger Association has refused to make a reduced rate to the Boston convention, florists in the territory of this association will be obliged to pay full fare to some point in the Central Passenger Association's territory and secure the reduced rate from that point on. The cost of the trip can be reduced to the minimum by buying a straight ticket to Chicago, then purchasing a ticket from there to Boston on the certificate plan via the Niagara Falls Short Line, and take advantage of the free sleeper tendered them by the Chicago Florist Club.

Buffalo to Boston.

The florists of Buffalo and vicinity will go to the convention via the West Shore Railroad, connecting at Buffalo with the train bearing the delegation from Chicago and the west, on August 18. Members

located at stations on the West Shore road between Buffalo and Albany who can arrange to take the same train should do so, as the larger the party the merrier. Those starting from Buffalo may secure information regarding tickets, etc., from Daniel B. Long, 457 Main street, or E. J. Mepsted, 479 Main street, Buffalo.

Boston Hotels.

Following is a list of Boston hotels at which arrangements have been made for delegates to the coming convention of the Society of American Florists. It is arranged according to distance from the convention hall, beginning with the nearest:

NORTHWARD FROM HORTICULTURAL HALL.			
Name and location.	Distance.	Rate.	
Tremont House, Headquarters,			
Tremont St.	opposite	\$3.00	5.00
Parker House.			
School St.	1 sq. r.	1.00	3.00
St. Nicholas Hotel,			
Province St.	3/4 "	75	1.00
Boston Tavern (guests only),			
Washington St.	1 "	1.00	2.00
Sherman House,			
Court Square	1 1/2 "	75	2.00
Young's Hotel,			
Washington St. & Court Sqr.	2 "	1.00	3.00
Crawford House,			
Scollay Square	3 "	1.00	2.00
Quincy House,			
Brattle St.	3 "	2.50	3.00
American House,			
Hanover St.	4 "	2.50	
Revere House,			
Bowdoin Square	1/2 mile	75	1.50
SOUTHWARD FROM HORT. HALL.			
Adams House,			
Washington St.	4 sqrs.	3.00	
Hotel Keynolds,			
Washington St.	4 "	3.00	
Virth's Hotel,			
Tremont St.	5 "	1.00	2.00
United States Hotel,			
Beach St.	1/2 mile	2.50	3.00
Hotel Brunswick,			
Boylston St.	1 1/2 "	3.50	5.00
Hotel Vendome,			
Commonwealth Ave.	1 1/2 "	3.50	5.00
* American plan. † European plan.			

The American Chrysanthemum Society.

The progress of the society has not been as rapid and pronounced as those who have the welfare of the chrysanthemum at heart had hoped and expected.

There are causes for this seeming apathy which unfortunately has delayed the good work a year. It can not be that a subject of such vast importance as a national chrysanthemum society for this country can be put off either by whims or caprice. Therefore, let all who are interested and especially those who have been with the promoters from the commencement determine to get together at Boston and make a start which can not be called back.

There is much to be done to get this worthy society on a safe foundation, but it can be done for the chrysanthemum has now taken a place in horticulture which can not be displaced by either fickle fashion or some good men's desires.

Any advice and assistance looking towards the permanent establishment of the A. C. S. will be thankfully received by any of the officers at any time, whether it be at a meeting of those interested or through the medium of the columns of the FLORIST or by private advice.

There is one matter which it is to be regretted can not, this year at least, be accomplished. I refer to an exhibition under the auspices of the A. C. S. To do so would involve great expense to the society, which at this time it is not prepared to bear. But there is one thing which it can do and that very easily, which is to open a register in which all named seedlings be recorded prior to their being distributed. It should be done before circulars or catalogues are printed, so as to avoid duplication of names. An effort was made in that direction last autumn, but the idea did not take shape early enough to be of much benefit. There are several duplications in last year's lists of novelties, which sooner or later will cause much unnecessary confusion. Just as soon as a seedling chrysanthemum assumes such decided character that it is thought worthy of dissemination a name should be given and forwarded immediately to the secretary of the A. C. S., and if there is no other chrysanthemum on the register or in cultivation of the same name it would then take its place in due form.

This is more necessary in this country than any other at present, owing to the climatic conditions whereby seed is so easily and successfully ripened. I trust the above will meet with favor with all importers, seedling raisers, and those who purchase new varieties.

EDWIN LONSDALE.

Prize List, Annual Exhibition Mass. Hort. Society, Boston, Aug. 19-22.

All articles for competition and exhibition must be ready for examination by the committee at 12 M. on Tuesday, August 19. The exhibition will be open to the public at 3 P. M. on Tuesday, and will close at 9 P. M. on Friday.

Special Prizes.

H. H. HUNNEWELL PRIZES.

No. 305 Coniferous Trees not Natives of New England—Display in pots or tubs, named \$15 \$10

OFFERED BY R. & J. FARQUHAR & CO.

306 Annuals—Best display, not less than 100 vases, a piece of plate of the value of 25

THEODORE LYMAN FUND.

329 For the best Floral Design, and best kept for three days, to be examined each day, and the prizes awarded the last day, the Lyman Plate, value 35 30 25

BY THE SOCIETY OF AMERICAN FLORISTS.

A For the best decoration of mantel-piece and fireplace. Plate 75 50

OFFERED BY ABRAHAM FRENCH & CO.

B For the best Floral Decoration of Dinner Table. Plate 60 40

OFFERED BY THE "AMERICAN FLORIST."

C For the best named collection of Hardy Herbaceous Flowers, with foliage, from Herbaceous Plants, not having woody or shrubby stems, and all Hardy Bulbs, filling 100 bottles with not less than 75 varieties. Plate 40 30

OFFERED BY HENRY A. DREER.

D For the best collection of Dwarf French Cannabis Cut Flowers and foliage, by amateur exhibitors. Plate 25 15

E For the best collection of Gloxinia Flowers, by amateur exhibitors. Plate 15 10

OFFERED BY PETER HENDERSON & CO.

F For the best collection of Seedling Verbenas of not less than 10 varieties. Plate 25 15

OFFERED BY PARKER & WOOD.

G For the best 100 vases Asters, 3 in each vase. Peony and Victoria flowered, not less than 12 varieties of each. Plate 25 15

OFFERED BY "AMERICAN AGRICULTURIST."

H For the best display of named specimens of Ornamental Foliage, Hardy Trees and Shrubs, filling 50 bottles, in books of the value of 12 8

OFFERED BY J. C. VAUGHAN.

I For the best collection of Dahlias, not less than 24 named varieties, filling 100 vases. Plate 25

J For the best collection of Lipidium Dahlias with buds and foliage, filling 50 vases, 3 in each Plate 15

OFFERED BY BENJAMIN GREY.

K For the best display of Nymphaeas and other aquatic flowers and plants. Plate 25 15

OFFERED BY SIEBRECHT & WADLEY.

L For the best collection of Orchid plants in bloom. Plate 25 15

M For a Single Orchid Plant, to be judged by points. Plate 15

OFFERED BY JOHN GARDINER & CO.

N For the best collection of Gladioli, filling 100 vases. Plate 25 15

OFFERED BY THE "AMERICAN GARDEN."

O For the best collection of Foreign Grasses. Plate 25 15

OFFERED BY THE BOWKER FERTILIZER CO.

P For the best 2 bunches of Foreign Grapes, one or two varieties. Plate 15 10

Q Ornamental Leaved Plants—Six greenhouse Cut Flowers. Plate 15

OFFERED BY GEORGE JOHNSON & CO.

R For the best collection of greenhouse Peaches, Apricots and or Nectarines, 12 specimens each. Plate 25 15

PRIZES OFFERED BY THE SOCIETY.

307 Palms—Pair, in tubs not less than 24 inches in diameter. 15 10

308 Pair, in tubs not less than 20 inches in diameter. 12 8

309 Pair, in tubs not less than 16 inches in diameter. 10 6

310 Pair, in pots not less than 12 inches in diameter. 8 5

311 Greenhouse Plants—Six greenhouse and stove plants, of different named varieties, two Crocus admissible. 30 25 20

312 Single plant for table decoration, dressed at the base, only one entry admissible. 10 8 6

313 Specimen Flowering Plant—Single named variety. 8 6

314 Ornamental Leaved Plants—Six named varieties not offered in the collection of greenhouse plants, Crotons and Dracaenas not admissible. 20 15 12

315 Single specimen, variegated, named, not offered in any collection. 6 5 4

316 Caladiums—Six named varieties. 6 4

317 Ferns—Six named varieties, no Adiantums admissible. 10 8 6

318 Adiantums—Five named varieties 5 4 4

319 Tree Fern—Sgl specimen, named. 10 8 6

320 Cycopods—Four named varieties. 10 8 6

321 Dracaenas—Six named varieties. 8 6

322 Crotons—Six named varieties, in the collection of greenhouse plants. 10 8 6

323 Six in 6-inch pots. 6 5 4

324 Cycad—Single plant, named. 10 8 6

325 Nephenthes—Three plants, named. 10 8 6

326 Orchids—Six plants, named varieties, in bloom. 12 10 10

327 Three plants, named varieties, in bloom. 8 6

328 Single plant in bloom. 4 3

these sets we have many varieties differing from one another mostly in color of bloom, and often also in the shape of the flowers, tint of the foliage and rankness of growth.

The common tall nasturtiums (T. majus) are most always increased from seed and treated as summer blooming annuals. And the seeds when young and tender are gathered and pickled in vinegar for table use; the young flower-buds are also treated in the same way. The different varieties as *atrogangueum*, dark crimson; *coccineum*, fiery red; *luteum*, yellow; *roscum*, rosy, and *Scheurmannianum*, scarlet striped, come pretty true from seed.

The dwarf nasturtiums afford us the largest number of varieties, and seed catalogues teem with them. And we have a yellow-leaved variety esteemed for its colored leaves, and double-flowered varieties that have got to be perpetuated from cuttings.

Among tall nasturtiums T. Lobbianum is my favorite. It affords us a greater variety in color and form than does T. majus, besides it is more floriferous, more perennial and less rank. The varieties come moderately true from seed, but we propagate most of our stock from cuttings. We use it considerably in summer planted out against trellis fences or spreading on the ground, and we grow it in the greenhouse for winter flowers. For winter-blooming we propagate it in July or August, grow it in pots and run the vines on strings under the rafters of the carnation house. When planted out in beds they grow too rankly and bloom too little; when grown in pots, growth is curtailed and blooming enhanced. And it is a very nice scarlet flower to have a lot of in winter.

Among other tropæolums, the canary-bird flower (T. peregrinum) is a common annual in our garden. Tropæolum tricolorum from Chili is a fleshy rooted species grown in greenhouses in winter on wire cylindrical trellises; T. Jarrattii after the same fashion is often grown with it. Tropæolum speciosum is one of the prettiest scarlet-blooming vines in cultivation, a native of Chili, and apparently hardy, but very unsatisfactory here. In many parts of northern Europe it is the crowning glory of the garden. Tropæolum pentaphyllum, T. polyphyllum and T. tuberosum are three other species of great merit as summer decorative perennials, but we have to take them on probation. They have tuberous roots, and are hardy only on warm, well-drained land and under a mulching; those who grow them usually dig up the tubers in fall and winter them under cover as they do Ipomæa and other tubers. The tubers of T. tuberosum are cooked and used for food in South America, and also in some European gardens, but they are mighty poor eating. W. F.

Marketing Cut Flowers.

I was much interested by Mr. Reynolds' paper on marketing cut flowers, read before the Chicago Florist Club and published in your issue of May 15. While the paper is certainly a very clever and exhaustive review of the subject it seems to me that at least one of the statements made is of very doubtful accuracy, and on this statement the whole strength of the argument depends.

While it is certainly true that could we sell our now wasted flowers at even a low figure our profits would be enormously increased, yet I can not believe that there are tens of thousands of buyers awaiting a reduction in prices to take

Nasturtiums (Tropæolum)

What we know as nasturtiums are in fact tropæolums. Nasturtiums proper belong to a different family of plants altogether; the common water cress (*N. officinale*) being one of them.

The common nasturtiums, or tropæolums rather, may be divided into three sets, namely, the common tall nasturtium (*T. majus*), the dwarf or bedding nasturtiums which are diminutive varieties of *T. majus*, and Lobbianum (*T. Lobbianum*) which is the tall one so much grown as a greenhouse plant as well as for outdoor purposes. Of each of

VARIETIES OF *TROPICOLUM MAJUS*.

our surplus stock. In the very height of the gay season when flowers are most expensive, a poor person can buy a bunch of bouvardia, mignonette and heliotrope for a sum which any one having more than enough for the bare necessities of life can easily afford. By this I do not mean that at Christmas or Easter this can be done, but on nearly every other day of the year—and when they can get these and many other beautiful flowers all winter we have no right to assume that they are waiting to buy roses and orchids. The poorer classes can not afford handsome pictures, furniture or

statuary, then why should we suppose they are willing and anxious to buy the choicest productions of our art?

It seems to me that Mr. Reynolds is assuming that flowers are a necessity, and to a limited extent this is true. They are necessary to those whose wealth enables them to possess everything that art and nature can produce, and who are therefore able to cultivate their taste for the beautiful, but it would be absurd to say that the bulk of our population favored in worldly goods must have the expensive flowers cheapened for their especial benefit. I do not believe that

this is so, but on the contrary, that cut flowers are, generally speaking, sold to the best possible advantage for both grower and dealer. The natural conclusion then is that our business has reached that stage where the supply is greater than the demand. With us in the eastern cities this is only partially true. For the present our efforts must be directed towards producing the largest possible quantity of first class blooms during the holidays the party season and at Easter. There is room for much improvement in this respect, for by unskillful management we growers have time and again

failed to respond to the earnest appeals of the dealers for more stuff, and thus indirectly caused the tremendous overproduction at other times.

It seems very possible that this overproduction will always exist to a certain extent under our present social conditions, but by careful study and skillful management the growers can do much to lessen its evils. That the commission system is in any way responsible for overproduction and consequent waste is difficult to believe. For many growers it is decidedly the best way of disposing of their merchandise. For our business it is fast becoming one of specialties, our growers are year by year curtailing the number of varieties grown until in the near future we may expect to find one man growing nothing but mignonette, another only La France roses, and a third only carnations, with the result that we will have finer and cheaper mignonette, La France and carnations than is possible under present mixed conditions. It would then be impossible for any florist or number of florists to make contracts for a grower's entire clip, as in the days of old, and either commission men must handle our products or we must have a market of some kind. Theoretically nearly every grower favors a public market, but practically there are many almost insurmountable objections, and the tendency seems to be the other way. In New York, for example, the commission men seem to handle by far the larger portion of the trade and it is understood that the best growers there are satisfied that it should be so. Can it be allowed that a good commission house is too favorable to the retailers? Is not the commission man's profits dependent on his securing as much as possible for his consignees? I feel confident that the trouble arises from competition and not from the commission system when properly carried out. In conclusion my object has been simply to suggest ideas for more able minds to improve upon and I earnestly hope that this subject will be thoroughly discussed at our Boston meeting.

JOHN NIELS YOUNG.
Germantown, Philadelphia.



Seasonable Notes.

Carnations should now be making rapid growth, in fact from this date up to September 10th they ought to get in their best work of the season. I notice the space between the rows of plants is gradually becoming smaller, which of course means a proportionate increase in the size of the plants. The weather so far this season has been exceptionally favorable to a sturdy development and vigorous habit, the rains which have been abundant seem to have come about the right time in almost every instance, consequently the growth has been almost continuous from the very time of setting out.

It is quite an interesting study to note the great difference of habit that exists between the varieties, Silver Spray, for instance, seems bound to start upwards and it is only by dint of constant attention that this sort can be made to keep

any where near the ground, while Tidal Wave raised and sent out by the same firm, hugs the ground so closely that it does not appear to have a leg to stand on. Portia is also pretty much of the latter habit, while Grace Wilder if not watched closely is liable to wander off and become somewhat scraggy; drawing out the center of the main shoot early in the season, however, brings her ladyship to terms and will greatly aid in forming the basis of a stock plant.

It is important at this time of the year to look closely to the plants from time to time, say once a week at least, removing all buds that appear, also all shoots that show a tendency to start off into flower; constant practice of this kind will greatly assist in attaining a uniform growth, so that when the time comes for the regular August or September stopping an even field presents itself for our work. It is also very important that the ground be kept free from weeds; keep the hoe moving and mind that no grass or other weeds are allowed to establish themselves near the stem of the plant, as such can only be removed when large at the risk of disturbing the plant.

August is the month when carnations seem to enjoy themselves to the very fullest extent, the cool dewy nights of that month appear to act as a double stimulant, under the exhilarating effects of which they seem fairly to advance at the double quick. H. E. CHITTY.

Paterson, N. J., July 28, 1890.

Exhibit of Hardy Flowers.

We present herewith an illustration from a photograph of an exhibit of hardy flowers shown by Charles L. Burr at the annual exhibition of the Springfield Amateur Horticultural Society, Springfield, Mass.

Among the flowers shown were *Digitalis hybrida*, *peonias* in variety, twenty-five varieties of German iris, *galliardias* in variety, *Dictamnus fraxinella* alba, *Coryopsis lanceolata*, single pyrethrums in variety, *Potentilla formosa*, *Scabiosa caucasica*, *campanulas* in variety, Iceland poppies (*Papaver nudicaule*), oriental poppies, sweet williams in variety, lilies in variety, *Delphinium caschmieranum*, *aquequias* in variety, *Spiraea VanHouttei* and *Japonica*, honeysuckles, and a large collection of hybrid remontant roses.

Long Island Notes.

BY WM. FALCONER.

DOUBLE ZINZIA, TOM THUMB.—After a few more years' careful selection no doubt we may get something good, but now, apart from dwarfness, the little chap is poor enough.

DICTAMNUS FRAXINELLA.—If you want to get up a stock of young plants get some of this year's ripened seed and sow it at once; if you wait till next spring you may get disappointed.

DOUBLE PYRETHRUMS are hardy enough if grown on raised beds or thoroughly well drained ground. If your land is not of this kind make up a raised bed and lift, divide and replant the pyrethrums now, so as to give them a good chance to get well rooted before winter.

FRESIAS.—These are bulbs that don't deteriorate by cultivation, they rather improve and multiply exceedingly.

VERBENAS FROM SEED.—Friend Miller who grows about half an acre of mammoth verbenas for seed never sows seed from blues or purples, and still in the next year's crop he always gets a moderate percentage of these colors. The

brighter and purer the colors the more favored they are.

FRANCOA RAMOSA is a Chilean saxifrage and a very desirable greenhouse flowering plant. I raised a lot of it from seed last spring and planted them out in May and lost nearly all of them. Better to have grown them in pots and kept them indoors or in frames.

THERE IS MONEY IN CACTUSES.—Mr. E. S. Miller, of Floral Park, the most successful propagator of cactuses in the country, will read an essay on succulents at the Boston meeting. Now, if you want to know anything about cactuses, the most desirable kinds to handle and how to propagate them, and where to get the kinds you can not readily propagate at home, and any other pertinent questions you please, come prepared, and when you get Mr. Miller on the stand remember "He that questioneth much shall learn much."

TUBEROUS BEGONIAS.—The finest lot that I have seen this year are growing, planted out, in cold frames covered with sashes which are whitewashed and ventilated by being tilted up at the sides.

CHINA ASTERS.—Veitch's Empress and Burpee's White Queen are our earliest asters. Both are of dwarf, even compact form, very prolific and bear large, full double, pure white flowers of the finest kind. I don't see any difference between the two.

CLEMATIS DAVIDIANA is one of our best, non-climbing, hardy, herbaceous sorts, and it now is in full bloom. The flowers are blue, small, crowded into terminal and axillary bunches and very fragrant. I have always propagated it by division and also by root cuttings. But I was at Hallow's the other day and there saw thousands upon thousands of thrifty young plants that were raised from seed. It has never ripened seed with me, and we have a good many large, old, stock plants of it.

SINGLE HOLLYHOCKS.—No doubt it is because of my crude and uncultivated taste that I have no favor for these. And I know in hollyhock season that the double flowers only are sought for and this too by people who pride themselves upon their fine esthetic taste. From seed sown now we can get up a nice stock of young plants that we can winter over in little space in cold frames and plant out in spring to give us good flowering stock next summer.

MONTEBRETIA CROCOSMIFLORA.—"Let me give you a point in growing it," said Dr. Wolcott Gibbs, of Newport, to me the other day. "Leave it outside in the ground over winter and mulch it deeply." "I had a surplus last year and I did that, Doctor," I replied, "and the field mice had a perfect heaven there, cut to pieces every corn and honey-combed the ground." "Field mice! why we don't have any of them at Newport," he answered. Just so, Doctor, different conditions demand different treatment.

THE DOUBLE-FLORING CORN FLOWER.—I have lost all charity for this wretch and pronounce it the most unmitigated humbug offered this season among general novelties.

SALVIA SPLENDENS var. Ingenue. Clavenad is a novelty this year. We are told that its blooms appear two months earlier than those of the ordinary *S. splendens*. But this is not so. I tried *S. splendens* as an annual, sowing it in March and again in April for planting outside. I treated Clavenad in the same way, and both came into bloom at the

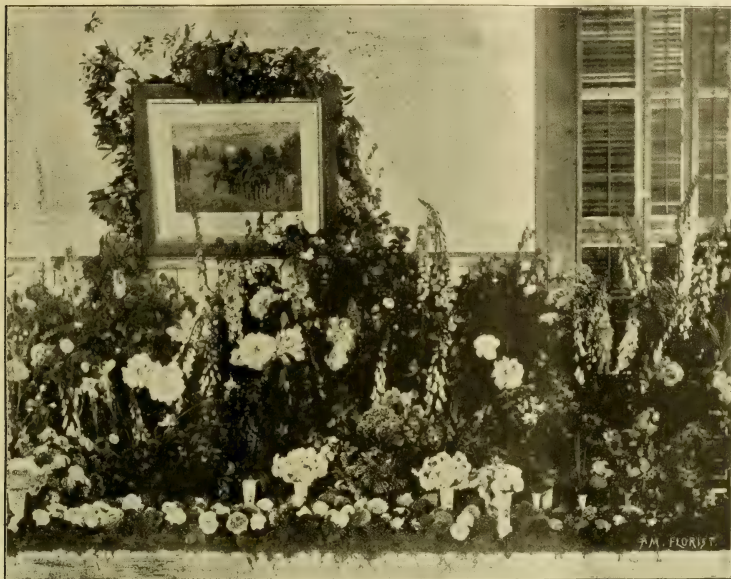


EXHIBIT OF HARDY FLOWERS

same time, and in any other respect I fail to find any difference between them. Pot grown plants of both came into bloom at ten weeks old.

THE DWARF gladiolus-flowered cannas have come to stay. But it isn't all gold that glitters. What with ripening seed, spent flower spikes and withered and decaying blossoms, these cannas in their most flourishing days display a good deal of raggedness. And if we would keep them looking their prettiest we should pick the dead flowers off every day.

SAVE YOUR canna seed and sow it and try to get something unusually good and new. Most of them set seeds freely and the young plants bloom the first year from seed. Don't think that all the good cannas are raised in France, the finest gladiolus-flowered canna in existence, so far as I know, has been raised from seed in America.

"ARTEMISIA ANNUA" furnishes "a great quantity of its charming foliage and beautiful green sprays of tiny buds, and of such delightful fragrance." No doubt opinions differ, and mine is this: This annual is a rank and stinking weed, objectionable as a garden plant and inadmissible among cut flowers.

"Ah, 'John' ah, 'John' thou'lt get thy fairin; In hell they'll roast thee like a herrie!"

TAM O'SHANTER.

Not a bit of it. I have just learned that you have given to the M. E. Church

Society of your village the ground on which to build a new church, also donated \$1,000 in cash to them to help build the church. This generosity we will accept in extenuation for your highly fragrant chamomile, your "Great Cyclone Plant" and your misnamed "Ipomoea gracilis."

"THE LAST" NOVELTY.—Henry Camell of England, has got a double-flowered calycanthema Canterbury bell, which he illustrates and describes in his catalogue this year. He styles it "The Last," and feeling assured of his safety placidly informs us that he won't be able to offer it for sale for three years to come. It may be interesting news to Mr. Camell that he is not alone in the possession of this novelty, I have got it in full bloom now (August 4) and it has been continuously in bloom since the middle of June last, and a friend at Flushing to whom I gave some plants also has it in flower. The three years' grace, if it will last for three years, consists in the great difficulty we experience in getting the plants to set seed; instead of setting seed like most any other Canterbury bell it keeps up a desultory blooming of misshapen flowers and ignores our anxiety for a crop of seed.

The Springfield, Mass., Amateur Horticultural Society.

This is a popular society, gotten up and conducted on popular principles. A prominent member of the society writes to me regarding it, and as his letter con-

tains a good deal of what is novel and suggestive in the getting up of a horticultural society, with his permission, I append the following:

"Our society is only eighteen months old, it was organized a year ago last January. It has over 400 members. The life-membership fees are 50 cents for men, and 25 cents for women. We have no annual dues, and have got to make all our money from our exhibitions, and joining the society. And instead of being bankrupt, as one might think, we have about \$400 to our credit. Besides paying our expenses we have one of the nicest little halls in the city that we hire and hold meetings—two a month—in for discussion of fruits, flowers, etc. Our great success is due to our interested, active members. We have got most all of the people who grow flowers to join the society, and when they came to the meetings they got interested and came again and so the thing has prospered. I think that every city of 10,000 or more people should have a society of this kind. On account of the great interest in flowers that has been inspired by this society, there has been an immense increase in the quantity of flowers planted in this city this season, over what was ever planted in it in any previous year. Our exhibition last month (June) was a grand success in every way, and we cleared between \$200 and \$300. We placed our tickets at the low rate of 10 cents each, and we had a large attendance." W. F.



A Rare Orchid.

A visit to the famous orchid "rendezvous" of W. S. Kimball, Rochester, N. Y., always reveals some unique and scarce orchids which his excellent "lieutenant," George Savage, has brought to the highest degree of perfection. The plant in question, *Renanthera Storiei* (Storie's), syn. *nephrolepis*, a relation of the grand vanda family of which *Vanda Sunderiana* is the most striking, was introduced from the Philippines about nine years ago. It is exceedingly rare and seldom in a healthy condition. W. S. Kimball's plant would give a reverse idea. It measures 8 feet in height, and when seen in flower bore an immense spike of flowers 2 feet in length and branching considerably. It could not have borne less than 110 flowers which were more than 2 inches across. Dorsal sepal and petals dark orange, lower sepal broad, of a brilliant crimson, lip small, deep crimson with small yellow bars.

Beside the above there were a great many species and varieties in flower, including grand varieties of *Odontoglossums*, of which *Harryana* was the most distinct. Some fine specimens of *Cattleya aurea*, the most beautiful of the golden cattleyas. The rare *C. Manglesii*, a delightful hybrid between *C. labiata* Luddmanniana X *C. Loddigesii*. The *lilias* were also represented by *L. xanthina*, *L. amanda*, a supposed natural hybrid, probably *C. intermedia* as one parent, the other with equal probability being *L. crispa* or *L. lobata*.

A grand galaxy of cypripediums was also in flower, the most prominent of which was a peculiarly tinted variety of *C. Curtisii*, etc., etc. A great many other species and varieties too numerous to mention were also looking their best.

The lily pond upon which great attention is bestowed, is filled with all the leading aquatics. The *Nelumbium speciosum* was apparently at home, as was also the ancient paper reed of Egypt, *Papyrus antiquorum*, used in the time of the Pharaohs. Among the last things we noted was a remarkable specimen of the Dutchman's pipe, *Aristolochia ridicula*, the latter name describing it to a T.

H. A. BUNYARD.

Mass. Hort. Society.

A delegation from the committee of arrangements went on a tour of inspection to the incomparable orchid houses of F. L. Ames and E. W. Gilmore at North Easton recently.

Wm. Robinson, gardener for Mr. Ames, acted as conductor and entertainer on this occasion, and the committee were well pleased with what they saw and enjoyed. Probably there is no one in this vicinity who is such an adept in growing orchids as Mr. Robinson, and it is a real pleasure to listen to his enthusiasm when going the round of the numerous houses over which he so ably presides. Although this is usually the barren season when but few orchids are in bloom, yet we saw some very fine specimens. A *Lycaste Deppii* with 100 blossoms was a fine plant. Some 15 varieties of cypripediums in bloom, one of which, *C. Wallisi*, was

exceedingly beautiful, the outside of the slipper being a soft buff in color and the inside white morocco with pendent petals two feet long. The cattleyas were in flower to some extent, there being 25 varieties showing bloom. The most beautiful one was *C. Dowiana*, a buff and crimson flower of superior elegance. *Epidendrum radicans* had been in continuous flower since February. *Oncidium Zebrium* was showing a flower stalk over 20 feet long and promised a fine effect when the buds expand. *Odontoglossums* and *masdevallias* in great numbers were in fine bloom, also *anacraums*, *vandas* and *cyclobambas*.

In the plant houses we found a great variety of plants in flower, such as tuberous begonias, *lapageria*, both *rubra* and *alba*, *gloxinias*, etc., intermixed with fine foliage plants, making one of the finest collections in the country.

Mr. Ames' houses and grounds are always open to the public and can be visited at all times, and visitors will always find there curiosities in plants and flowers that can not be found in any other collection. We were welcomed at Mr. Gilmore's by Mr. Greaves, but as our time was limited we made only a hurried survey. The usual neatness was manifest, and the orchids and plants presented a very healthy appearance and considerable bloom. Mr. Gilmore's houses are not nearly as extensive as Mr. Ames', but his collection has been made with great care and with a view of growing only the best in the limited space he devotes to plant culture. Both places are open to the public and visitors are always welcome.

Onesels and Onesels.

Conducted by CHARLES F. BAKER, Agricultural College P. O., Ingham Co., Mich.
Send specimens of unidentified insects and diseased plants to him at above address.

The Red Spider.

(*Tetranychus telarius*, Linn.)

Perhaps no insect can so vex the florist, when circumstances allow, as the red spider (*T. telarius*, Linn.). Almost every florist has had it to deal with and each can attest to the destructive character of its work. Leaves of plants in the greenhouse and garden, especially roses, are sometimes seen to be covered with yellow blotches. These may be due to some fungus, but more often, if closely examined with a magnifier, may be found to be covered with large numbers of the red spider in different stages of growth.

The systematic class *Arachnida* includes spiders, scorpions and mites, the last named constituting the order *Acari*. This order is divided into a number of families as follows: the *Trombididae*, including spinning and harvest mites; the *Bdellidae*, including snouted harvest mites; the *Hydrachnidae*, including water mites; the *Gamasidae*, including insect mite-parasites; the *Oxodidae*, including the ticks; the *Halacaridae*, including the marine mites; the *Oribatidae*, including the beetle mites, and the *Acariidae*, including subcutaneous, cheese, itch and gall mites. These families contain many very common and troublesome but interesting species. The *Arachnida* are not true insects and are distinguished from them in having four pair of legs instead of three, in having only two divisions to the body, a head-thorax and abdomen, instead of three, a head, thorax and abdomen, and in having no antennae and also no com-

pound eyes, but a number of simple ones. The mites are separated from the spiders and scorpions by several very striking characteristics. The mites never have the abdomen unpunctuated (joined to the thorax by a slender tube) like the spiders and their whole bodies are in one piece, there being no grooves to mark the places of separation. Of the family *Trombididae*, which contains the most highly organized species of *Acarina*, the red spider is a type. It is one of the best examples of the spinning mites. It is on account of this habit of spinning webs that it came to be called a spider, which in truth it is not.

The red spider (see Fig. 1) is a very minute insect, only one twenty-fourth of an inch in length, thus appearing to the naked eye like an animated speck. In color it varies from rust red to brick red and has two brownish yellow spots on the sides. The yellowish and green forms which are often found are probably simply immature. As the coats of the body are nearly transparent any colored material in the stomach would give a different appearance to the insect. The reddish colored individuals are the most familiar to the florist. Duges found on the hollyhock at the same time specimens of all shades of color. Johnston observed that on the grape vine their color varied much in intensity. This great variation at first led scientists to think them of different species, but they were afterwards supposed to be the same species, and this was proved by breeding them. These results might never have been obtained had color been taken as a species characteristic. Whether of the same species or not does not make any material difference to the florist, as they are all equally destructive. The body is oval in shape, with two pair of legs projecting forward and two back, the first pair of front legs being the longest. The eyes are two in number and very minute. Just under the hind portion of the body is a small conical projection, which is the spinning organ. The mandibles are short, and with their scissor-like terminal joints are fitted for cutting. Just between the mandibles is a barbed sucking apparatus. The mite eats away a portion of the leaf-skin by means of the mandibles and then plunging in its barbed sucker it draws up the cell contents. The appearance and relative positions of the mouth parts may be seen in Fig. 2, which shows the mouth and palpi, one mandible and the barbed sucker. The claws (see Fig. 3) are specially adapted to help in spinning the web, being very short, much curved and furnished with long stiff hairs, some of which may be very finely tipped with globular appendages. The legs are supposed by some to be an essential part of the spinning apparatus, on account of the claws and their hairs being used only in this connection. The threads are drawn out and guided by the motions of the insect, its feet moving with great agility. The movements of the insect itself, however, are not at all quick, and on smooth or polished surfaces it moves with great difficulty.

The egg of the red spider is spherical and colorless, and the size is proportionate to the size of the insect. In eight days the mite (see Fig. 4) hatches out. It is then exceedingly small, transparent, very light in color and, unlike the parent, has only three pairs of legs. After attaining maturity it sheds its skin when the fourth pair of legs appears. Duges says that undoubtedly it passes a short time just at this period in the immovable pupa state. The eggs are laid and the insects spend their lives on the under side of the

leaf, occurring on the upper side only by accident. When established on a leaf they spin a web, fastening the threads to hairs and prominences on the surface of the leaf. While doing this they support themselves by means of bristles which jut out beyond the claw. The threads are so fine that they can not be seen even with a common magnifier until after being worked into the web. If we examine the surface of the leaf beneath the web by means of a magnifier we should find hundreds of the red spiders in all

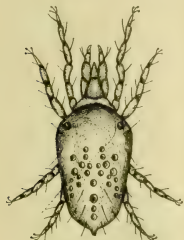


Fig. 1. (After Claeprede.)

stages of growth, from the egg to the perfect insect. It is not the feeding of a few that causes the injury, but of myriads. The leaves assume a yellowish color, or grayish green, marbled with paler patches above, while below the glistening web gives it a grayish appearance. The injury is not only shown on the present growth of leaves and flowers, but during the next year the twigs become stunted and weakened. The leaves are ultimately killed and fall prematurely. Sometimes their work causes the edges of the leaves to roll under slightly. In fact, it causes the whole plant to become sickly and finally die. The fact of their having been



Fig. 2. (After Claeprede.)

found under stones in October caused Duges to believe that they passed the winter in that or similar situations, concealing themselves when the infested leaves fall.

The red spider is probably found to a greater extent on roses than on any other plant, although there is hardly any tender garden or greenhouse plant that is exempt from its attacks. In Europe several species of fruit trees are subject to its attack, and in this country it has been found on the plum and quince. Other plants which have been injured by it are hollyhock, calla, viola, Spiræa Thunbergii, mitella, tropeolum, adlumina, bean and nasturtium.

The fact that often the red spider will get a firm foothold before discovered, would warn us to keep a sharp outlook for them. It might be given as a general rule that any plant showing a sickly appearance should at once be separated

from the rest, the cause ascertained and then be specially treated. The red spider thrives only in a hot, dry atmosphere. It is never found in numbers sufficient to be injurious in a moist atmosphere and a low temperature. This at once points out a good preventive. Means should be employed to keep the atmosphere moist and free access given to fresh air. Plants regularly and thoroughly sprayed will not be attacked, and all plants in glass and not in flower should be so sprayed. The presence of large numbers of the red spider then is indicative of ill treatment. Sulphur has probably been used more widely as a remedy than any other substance. This may be used in fumes, in solution or dry. It is not used very often, as the other methods are much more preferable. The solution is made by mixing one pound of sulphur and two pounds of quicklime and boiling the mixture in four gallons of water. Sulphuret of lime is also used by mixing four ounces of the sulphuret, two ounces of soft soap and one gallon of boiling water. The sulphuret and soap should be mixed and stirred while the water is poured in. It should be applied to plants by dipping them in it and to bark with a stiff brush. Sulphur should not be burnt in any quantity. It will exterminate the red spider, but is liable to also injure the plants, and so should only be used when the house is empty or else in very small quantities, which does not always answer the purpose. Painting the blighting pipes with a wash of sulphur and lime or sulphur and guano has been very successfully tried. The lime and guano are used to bring the wash to the proper consistency. This should be repeated every eight or ten days. This in connection with repeated forcible syringing of the plants will usually soon reduce the number of red spiders to a minimum. In order to prevent them from traveling to other plants by crawling up the stems, soot, caustic lime, sand impregnated with sulphur of tar, or any similar substance should be scattered around the base of the plant. When an infested house has been emptied of its plants sulphur may be burned so as to kill all the mites left. Then all cracks in poles or other supports and in the sides of the walls should be puttied so as to prevent any of the mites crawling in and to admit of a more thorough washing. The following mixture has been very successfully used in cleaning the walls: Add clay to a solution of soot in water until it is of about the consistency of thick paint. Then add one pound of flowers of sulphur or two ounces of soft soap to each gallon. This should be well mixed and the entire surface of the inside walls carefully painted with it. Tobacco smoke seems to have no effect on the red spider. Kerosene emulsion has been experimented with as a remedy, but no definite conclusions have been arrived at as yet. Prof. Lintner says it could not fail of accomplishing its purpose if it was properly applied. In the application of any liquid care should be taken to have it applied thoroughly and with force so as to reach the underside of every leaf. A few applications of whale oil soap in warm soft water will accomplish much. If this is used it should be applied late in the afternoon and the plants washed off the next morning with pure water. Gishurst's compound and solution of quassia have also been successfully used. The gardener and florist are often assisted in their warfare against the red spider by the larvae of the green lace-wing (*Chrysopa*). These devour the mites so fast and in such large numbers

that entire colonies will sometimes disappear before them.

T. telarius is not the only species of the genus that is troublesome to the florist and gardener. *T. cucumeris* works on the cucumber; *T. russulus* on cacti; *T. vitis* on the grape vine; *T. fici* on the fig; *T. socius* on clover; *T. rosarum* on the rose tree; *T. ferrugineus* in greenhouses on *Cyclamen*, *Comm.* and *perisperm*; *T. tiliarium* on the lime tree, and *T. autumnalis* on a variety of plants and also



Fig. 4. (After Claeprede.)

on human beings. In general what has been said of *T. telarius* will also apply to these.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XV.

ATTACHING AND ENJOINING.

You appear to be very much excited. Calm yourself and get down to facts. You say you have information that Sharp & Keane are secretly disposing of their property with intent to defraud their creditors. They owe you \$500 do they? On a contract I suppose. "Stocking their skating rink with ornamental plants and flowers and keeping the same in order" the bill reads I see. Well, you must attach at once.

In other words make a grab; such a grab as the law allows when the debtor is not a resident of the state, or being a resident has absconded, or concealed him-



Fig. 5. (After Claeprede.)

self to avoid payment of his debts or is secretly disposing of his property with intent to defraud. Your attorney will attend to the details. It will be necessary to give security before the court will grant you the order. Then the officer will proceed to make his levy and out of the proceeds of the sale, your claim will be satisfied. If there are several ahead of you, the chances are you will get nothing. In this world the first man is the best man. The law always awards a good fat worm to the early riser. I hope you will be the first to make a grab. We shall know in a few days.

In business matters it is often an easy matter to sell goods, especially on credit. The science of the thing is to collect your money. Now there are several ways to reach men like Sharp & Keane. Attachment is one. Arrest is another. Of course where the property is visible and tangible it is an easy matter to make levy. But sometimes the property consists of an interest in a corporation, money in bank,

etc. In such cases the sheriff merely serves a certified copy of the attachment on the president or cashier of the bank. That forces the bank to hold the money until judgment can be procured. Now if you know where these men, or either of them, have any interest in a stock company, you must attach it. You're right, you cannot attach property exempt by law.

Suppose as you say, you only find enough property to pay one-half of your claim, what then? Why, that amounts only to payment on account of so much money. The balance of your account still hangs over them. It is natural that some attachments should fail to "stick" as the lawyers call it. The party makes counter affidavits denying your charges and then it becomes a nice fight.

In most of our states whenever there has been a "conversion" an attachment will lie. By "conversion" I mean a fraudulent application of funds or property entrusted to your keeping for a specific purpose and no other. For instance, you loan me money on some personal property, I give you back a chattel mortgage and then you sell or remove the property, in other words "convert" it to your own use.

You ask me to explain the difference between attach and enjoin. They are quite different. Suppose some man bought a lot next door to you and began to manufacture some kind of an acid, the fumes of which killed all your flowers, you would be entitled to an injunction.

An injunction is tying up a wrong doer until the court can hear and determine the whole matter. Then the injunction is either dissolved or made permanent. Before the law will permit you to stop a man's business you must make out a strong case. It must not be speculative. It must state facts.

But in some cases you need not wait until the damage has been done. That would be too late. It is only sufficient that the person having the power to do the damage threatens to do it. That's all. For instance, the manufacture of acid next door to you might not injure you, so you must wait for developments. But if you had been engaged to a young lady and she had written you a number of letters and then there had come a break—a mere threat on your part to publish the letters would entitle her to an injunction. For you see the publication once made no act of the law could undo the harm. Now you have a trade mark which you use on your seeds. Here a mere threat to imitate would not entitle you to enjoin a person, but an actual imitation of your trade mark would.

But with injunctions as with attachments, the law exacts that you shall move quickly and not sleep on your rights. By so doing you appear to give and do give in the eyes of the law a permission to do the thing afterward complained of. I trust you'll not be obliged to have frequent recourse to either of these remedies, but when the occasion arises strike quick and strike hard. Often an attachment or injunction will at once bring the party to terms and he will step up and settle like a little man.

You've been long enough in business to know that a man rarely gets his rights unless he fights for them. Therefore without being too belligerent don't hesitate to demand what lawfully belongs to you. All the world loves a good fighter.

UNCLE BLACKSTONE.

SEE LIST of hotels at which arrangements have been made for delegates in another column.



CARLUDOVICA PALMÆFOLIA.

Carludovica Palmæfolia.

When a specimen of this plant was exhibited at the meeting of the Royal Horticultural Society on August 27, 1889, says the *Journal of Horticulture*, the Floral Committee at once awarded a first class certificate for it, a recognition that was well deserved, as the plant will evidently prove most useful.

Several fine *Carludovicia* are in cultivation and occasionally make their appearance at exhibitions in collections of fine foliage plants, where they have a capital effect. They are also sometimes employed in sub-tropical gardens, particularly *C. palmata*, which is of strong habit and well suited for that purpose.

The species represented in the illustration is one of the most elegant known, producing leaves 2 feet long and 1 foot wide at the broadest part deeply divided, and the divisions 4 to 6 inches across. It is a fine lovely green, and the arching leaves give the plant a graceful appearance. It will succeed in a stove or intermediate house in a compost of peat, loam and sand.

The *Carludovicia* are easily mistaken for palms, which they closely resemble, but they are regarded as the botanical allies of the screw-pine (*pandanus*) family.

Philadelphia.

Business is at a standstill at present and the boys are filling in the time with little trips to the seashore, fishing, howling, base ball, etc.

We are informed that in New York and certain parts of Jersey the bowling fever is very prevalent, it is hoped, however, the trip to Boston will afford some relief.

Quite a number of New York and Philadelphia brothers meet at a quiet resort on Barnegat Bay for a week's fishing about the first of August each year. This season the party comprised Messrs. May and son, Asmus and sons, Cowan, Wethered, Dimmock, Young and Dean, of New York, and Westcott, wife and son, Harris, Craig and Kitt, of Philadelphia. John Westcott was Commodore and how he did manage things. In the words of the song "Oh he is a jolly good fellow." The



VASE OF AURATUM LILIES ARRANGED AND PHOTOGRAPHED BY C. B. WHITNALL.
MILWAUKEE, WIS.

fishing was very good. Messrs. May, Westcott and Harris carried off the honors in the shape of large fish, while Cowan and Craig were strong on crabs.

Mr. Chas. Evans has just returned from a trip to Boston via the all-water route. He believes the boys will have an elegant time at the Hub; but the all-water route he found to be very undulating and he would not advise it.

The stable at Mr. George C. Evans' place was struck by lightning recently and set on fire; fortunately there was plenty of help at hand and the flames were soon extinguished without much damage.

A game of base ball between the florists and a nine composed of the employees of Messrs. Lonsdale and Burton, was played near their nurseries on Saturday, August 9, resulting in a score of 14 to 7 in favor of the florists. Quite a number of the trade were present and the lunch presented after the game was much enjoyed.

Mr. Watson, of Messrs. Gardiner & Co.,

was given a complimentary dinner by a number of his friends in the trade on his return from Europe a few days ago, it was a very enjoyable occasion.

W. L. Edwards, of Norwood, is erecting two houses 24x125. His specialty is cavations.

J. W. Colflesh is erecting a large addition to his dwelling.

Chrysanthemums in this neighborhood look very fine, the stocks appear immense, but the growers seem sure of a market if the plants do well.

A sure cure for the blues, a small bottle of Dan Farson's "Essence of Fun." B.

BALTIMORE.—James Pentland has a seedling pandanus, found in a batch of utills, which while identical in habit, is in color a rich gold shaded with lemon and with here and there a vein of red, toward the midrib, margined with green. It is a very striking object. Mr. Pentland has grown the plant three years, and during that time it has shown no ten-

dency to run back. He is justly proud of his "find" and has placed the plant among those marked "not for sale."

The August Meeting of the G. and F. Club of Boston.

A big crowd.

Some had to stand up.

Mr. Flynn asked several conundrums.

Frank Becker was full of enthusiasm.

Norton's generosity was all right until somebody stole his trump card.

L. H. Foster placed the club under obligations by agreeing to act as convention secretary.

Cunningham's dignity received much favorable comment.

Mr. Morton's earnest attention to details was only equalled by Pres. Calder's anxiety to explain everything.

Members in good standing can now salute the back-sliders with "I told you so."

The ladies at a Boston Gardeners' and Florists' excursion. Well "the world do move."

Mr. Sam Neil was quietly argumentative and Ward, of Salem, gave him good natured encouragement.

The committee which had just returned from a tour of inspection of the harbor showed no signs excepting a little sun-burn.

Treasurer Welch had a look of serious responsibility on his face. The treasury must be getting heavy just about this time.

W. J. S.

Transportation of Plants.

John Burton, a florist at Chestnut Hill, has brought suit against the United States Express Company to recover damages. Burton, in his statement of claim, says that on December 3, 1889, the express company undertook to transport for him from Chestnut Hill to New York City eighteen palm plants, twelve to be delivered to one address and six to another. The company carried the palms to New York, but the persons to whom they were consigned refused to accept them because they were frozen, and they were returned to Burton and he tried all means in his power to save them, but found them to be utterly worthless. He says that on the night of December 3 and the morning of December 4 the weather became intensely cold, and the freezing and destruction of the palms was due to the negligence of the express company, which hauled them through the streets of New York City in an open wagon, unprotected, in violation of their agreement that they would transport them safely. He therefore brings this suit to recover the loss sustained by him.—*Philadelphia Ledger*.

Boarding Plants.

With the increased use of large decorative plants, such as palms, agaves, etc., as lawn or verandah ornaments during the summer, comes a demand for greenhouse space during the winter to carry over such to the following season, and in some cities "boarding" plants through the winter has come to be quite a considerable item of the florists' business. This division of the business has not as yet been systematized to any extent in most places, the memory, wood labels and rough memoranda being largely relied upon. And in view of this we present as a suggestion a copy of a storage receipt used by Messrs. C. B. Whitnall & Co., of Milwaukee, in this department of their

No.

STORAGE RECEIPT.

Board Book Folio.

C. B. WHITNALL & CO.,

OFFICE: 428 MILWAUKEE ST.

Milwaukee, 18.....

Received of the following Plants:

NAMES OF PLANTS.

SPECIAL DESCRIPTION.

Pounds weight. Sq. ft. will occy.

(All plants in pots 8 inches and under will be 10 cents regardless of size or weight.)

Total.

..... pounds @ for labor, handling, etc.

Storage, feet of Greenhouse space @ for

Which are of the weight and size as written above, and which in consideration of the payment to us of \$..... for storage and labor charges, and for their proper care and keeping to the best of our ability during said season, we agree to deliver up to said upon surrender of this receipt at or before the expiration of eight months from the date hereof, at such place in the city of Milwaukee as may be directed, in good condition; loss or damage, if any, by fire, from water, hail, burglary or unprecedented storm or weather not being assumed by us.

Said \$..... to be paid to us at the time of delivery of said property at the expiration of said eight months; and it is further agreed that in case said property shall remain unclaimed beyond the period of eight months aforesaid, such failure to claim said property shall be construed as a further contract of Storage for an additional period of eight months, upon like terms above mentioned, for Storage only, omitting charges for labor and handling, viz: \$..... and that we shall at all times have a lien upon said property for the storage charges above described.

SIGNED

business. The blank receipts are found in book form, numbered and attached to stubs likewise numbered and with spaces for entering the date, name of party to whom receipt is given, names of plants, total weight and total square feet to be occupied by same and total charges. Also board book folio. The "board book" is provided with headings for date received, number and names of plants, description of same, how long to be kept, price to be charged, special charges, pots, boxes, extra labor, etc., date returned and total charges, thus making the record of all items complete. The system should certainly commend itself to all who "board" plants in any considerable numbers.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—Young man; single; good references; 3 years' experience. Address A. S. NICOL, Kingston, Luz. Co., Pa.

SITUATION WANTED—By October 1st in floral store by experienced German lady. References as to ability given. Address F. A. care Am. Florist.

SITUATION WANTED—By a florist of large experience, understands perfectly rose growing, bulb forcing and propagating. Address A. care American Florist.

SITUATION WANTED—By a young Scotchman in a good commercial or private place; 9 years experience; first class recommendations. Address K. care American Florist.

SITUATION WANTED—As propagator of roses and other florist stock. First-class reference as to ability, etc. Married. Address F. B. care American Florist, Chicago.

SITUATION WANTED—Florist, age 23, de-luxé situation; 10 years' experience in the different branches; sober and energetic. Best of references. Address FRANK BROWN, Drawer 4, Barrie, Ont.

SITUATION WANTED—By young man in private or commercial place, experienced in roses, orchids and general greenhouse plants, well recommended. Address A. S. 280 Evanston Ave., Chicago.

SITUATION WANTED—By a florist, well experienced in propagating roses, cut flowers and general plant growing. German; age 22; well recommended. Address M. STAUB, 1113 1/2 St. Newport, Ky.

SITUATION WANTED—By a gardener, 30 years of age; 18 years' experience; 6 years manager of extensive greenhouses in Mexico. Best references. Address W. E. Beck's Drug Store, Pittsburgh, S. S. Pa. 21th Ward.

SITUATION WANTED—Gardener and florist with long practical experience in all branches of horticulture, wants to change his situation the 1st of Sept. Married, without family. Address FRANK WELSH, Morristown, N. J.

SITUATION WANTED—By a young competent German florist and landscape gardener, experienced in line of nursery, also capable of drawing plans. Best references given. Address H. F. 3811 Manchester Road, St. Louis, Mo.

SITUATION WANTED—By a young man in the vicinity of New York or Boston; 3 years experience in growing roses, cut flowers and general greenhouse plants; sober and steady; first class references; American, aged 30 years. Address A. J. MOUS, Bridgeton, N. J.

WANTED—Florists' trade lists and catalogues. Address A. SCHMITT, San Pedro Springs, San Antonio, Texas.

WANTED—Catalogues and price lists of straw berries and fruit trees. Address G. H. RICH, Florist, Crete, Ill.

WANTED—A night man in greenhouse; must be steady and reliable. Address Lock Box 46, Steubenville, Ohio.

WANTED—200 to 300 feet of 4-inch pipe and fittings. Address W. LITTLE, 47 Ridge Street, Glens Falls, N. Y.

WANTED—2,000 feet of 4-inch pipe and fittings. State price here. Address ALBERT FUCHS, 430 E. Division St., Chicago.

WANTED—First-class greenhouse hand for cut flower establishment. Man experienced to take charge preferred. Address FLORIST, 31 North High St., Columbus, O.

WANTED—A gardener, good grower of roses, carnations, violets, greenhouse & bedding plants. Give references and wages wanted. Address FRANK B. SMITH, box 181, Danville, Ill.

WANTED—At once, handy man for general greenhouse work; one that can handle and knows about tools, pipes and glass preferred. Steady job. Address PUCHS, 430 E. DIVISION ST., CHICAGO.

WANTED—A good steady man, one who understands the growing of roses, bedding plants, propagating, etc. A steady place for the right man, one who must be willing to work. References required. Address W. A. BOCK, North Cambridge, Mass.

FOR SALE CHEAP—One No. 2 Hitchings Saddle Boiler. Address R. E. MENGEN, Maryville, Mo.

FOR SALE OR RENT—Two greenhouses, one 13x18 and one 8x22, doing a good business. Call on or address J. ERNEST WELSH, 3833 Terrace St., Wissahickon, Philadelphia, Pa.

FOR SALE—A florist establishment of five greenhouses in first-class condition and every convenience, with stock and fixtures, in a live city of over 10,000 inhabitants within 200 miles of Chicago. Wish to retire from business. A splendid opportunity to step into an established, paying business. Address MALTA, care American Florist, Chicago.

FOR SALE—A florist establishment, one greenhouse 75x18, and two 75x12 feet each, heated by hot water (Weathered's); 25 acres of good land, some wood and pasture, plenty fruit; dwelling house, barn and other out-buildings; good well and cistern. All buildings new and in good order. One hour from New York City and one mile from depot. Price, \$4,300 or will sell the greenhouse property separate for \$2,000. Address F. O. Box 113, Kearneys, N. J.

FOR SALE.

Astoria Nurseries, Astoria, N. Y. Having purchased the larger part of the stock of Wm. C. Wilson, and wishing to reduce waste preparatory to moving to new location, offer bargains in all varieties of plants. Heating apparatus and greenhouse fixtures also for sale.

A BARGAIN.

A WELL ESTABLISHED Florist business for sale. Four houses, well stocked and equipped. Must sell, for good reasons, even if at a sacrifice. Growing Ohio city of 25,000 inhabitants. Large trade with surrounding towns. Address

OPPORTUNITY, care Am. Florist.

TO LET.

9,000 square feet of glass, within 17 minutes of New York by rail, and 45 minutes by wagon; 6,000 square feet heated by Hitlings boilers. The rest by flues. Dwelling house and sheds. City water in greenhouses. Address

S. B. VREELAND, Greenville, Jersey City, N. J.


FOR SALE OR LEASE.

A great opport. offered. A first class florist business consisting of about two acres more or less of very rich ground, thereon seven greenhouses, about 7,500 feet of glass, five are heated by steam and two by flues, 100 hot bed sashes, good dwelling, mechanical water, two wells and tankage, pipe for distributing, new wind mill fixture complete. For particulars send for pamphlet and front and rear views of place. A good return for selling will be furnished on application. Address

M. TITTSCHER, Nashville, Tenn.

ROSES

FOR IMMEDIATE PLANTING

Duchess of Albany...	4-inch	\$12.00	6-inch	\$15.00	8-inch	\$18.00
Mme. Hoste.....	7.00	10.00	12.50			
Am. Beauties.....	8.00	12.00	15.00			
La France.....	5.00	9.00	12.50			
Gontiers.....	4.00	8.00	12.00			
Perles.....	4.00	8.00	12.00			
Niphotos.....	4.00	8.00	12.00			
Mermets.....	4.00	8.00	12.00			
Brides.....	4.00	8.00	12.00			
Bon Silenes.....	4.00	7.00	10.00			
Balto. Belle, strong, 4-inch,	\$8.00					
Gen'l Jack, 2 in. 4-in. per 1000; 3-in. per 100						
H. Perpetual, 40 var, 2 in. 5-in. per 1000.						
Geraniums—latest Novelties.						
Ferns—A. cuneatum, A. decorum, \$10.00 per 100.						
Latania borbonica, 5 in. 4-in. \$3.00 per dozen.  SEND FOR LIST.						

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

FIVE NEW AMERICAN ROSES

Probably the most interesting Novelties of the coming season, and those that will attract the widest attention of the Trade on both sides of the water, are our

NEW AMERICAN SEEDLING ROSES,

HENRY M. STANLEY,
MRS. JESSIE FREMONT,
MAUD LITTLE,
PEARL RIVERS,
GOLDEN GATE.

Five New Teas of Sterling Merit, originated, grown, and tested in this country, and sent out on their merits at reasonable rates. Orders can be booked now and will be filled in rotation as received—April 1st next. Full descriptions ready Jan. 1st.

Prices, \$1 each; set of 5 for \$5; two of each, 10, for \$9; five of each, 25, for \$20.

ADDRESS THE DINGEE & CONARD CO.,

Rose Growers, West Grove, Pa.

ROSES FOR PLANTING.

BROWN & CANFIELD,

SPRINGFIELD, ILL.,

Still have Fine Plants of Following:

CATHERINE MERMET, 3-inch	Per 100	\$1.00
LA FRANCE, 3-inch	7.00	
PAPA GONTIER, 3-inch	7.00	
MME. DE WATTEVILLE, 3-inch	7.00	
MME. CUSIN, 3-inch	7.00	
DUCHESS OF ALBANY, fine, 3-inch	12.00	
A few LA FRANCE and MERMET, 4-inch	12.00	

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 3 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best results to the florist, growing from an and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

Perles, Mermets, Cook, Souv d'un Am.	Per 100	Per 1000
Brides, Jacqueminot, Bon Silene,		
strong plants, 3-in. pots	8.00	\$75.00
Ros. de Wootton, 3-in. pots	12.00	
Smilax, strong, 3-in. pots	12.00	25.00
Rev Begonia, fine varieties, 3-in. pots	8.00	

WOOD BROTHERS,

(Successors to L. C. WOOD & BRO.) FISHKILL, N. Y.

C. M. PRESBY.

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JOHN HENDERSON CO.,

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

TO OUR PATRONS, AND THE TRADE GENERALLY:—We are convinced that this Rose will prove of permanent value—indoors and out. Its continuity of flowering, vigorous growth, large flowers, beautiful in color and form—a true Tea—must commend it to all.

Strong plants Ready April 1st, \$1.00 each; \$10.00 per dozen.

All the Old, New and Forcing varieties on hand, at lowest prices.

WRITE FOR CATALOGUES AND PRICES.

THE OAKS ROSE NURSERIES

ROSES.

Meteor, Mme. Cusin, Perles, Niphotos, Mme. de Watteville, Brides, Papa Gontier, Mermets, Magna Charta, and Gen. Jacqueminot.

CARNATIONS.

Hinsdale, May Queen, Orient, Silver Spray, Paxton and Buttercup

Strong healthy plants at lowest prices. Write for particulars.

JOHN H. TAYLOR,
BAYSIDE, L. I., N. Y.

California's New Rose "THE RAINBOW."

READY FOR DISTRIBUTION.

During the recent Rose Show of the California State Floral Society "THE RAINBOW" received more admiration than any of the thousands of flowers exhibited, and the highest comments of the press.

Stock in the best possible condition at the following prices: 1 Plant, \$1. 12 Plants, \$10. 100 Plants, \$75.

TERMS CASH.—Remittances may be made by Draft, Postoffice Orders, or Wells, Fargo & Co. Money Orders.

Description and Colored Plate of "THE RAINBOW" will be mailed on application.

25 Post Street,
JOHN H. SIEVERS, SAN FRANCISCO, CAL.

ROSES.

We offer for sale 10,000 first quality Roses grown from two eyed cuttings. They are in fine condition for immediate planting.

Perles, Mermets, Brides, Niphotos, Safrano and Bon Silene.

Price, 3-inch pots, \$7.00 per 100. 4-inch pots, \$10.00 per 100.

SOUVENIR DE WOOTTON, 3 inch pots, \$12.00 per 100. 4-inch pots, \$15.00 per 100.

PAPA GONTIER and LA FRANCE, 3-inch pots, \$8.00 per 100. 4-inch pots, \$12.00 per 100.

SMILAX. Fine, vigorous plants, from 2½-inch pots, \$2.50 per 100; \$3.00 per 1000.

J. L. DILLON, BLOOMSBURG, PA.

FOR SALE.

CLIMBING NIPHOTOS.

We have several hundred fine plants of the above Rose in 4-inch pots, 15 to 18 inches high. Also

PERLES, MERMETS, BRIDES, BON
SILENES and GONTIERS,
4-inch pots, fine plants.

Write for prices, stating number wanted.

SALTER BROS., Rochester, N. Y.

ROSES

FOR WINTER BLOOMING.

10,000 healthy Roses from 4-inch pots, consisting of
Mermets, Brides, Perles, Cusins,
Souv. de Wootton, Papa Gontier,

La France and Niphotos,

at \$10.00 per 100.

Bon Silene and Safrano, \$8 per 100.

Also 10,000 SMILAX from 2½-in. pots,

at \$4.00 per 100.

JAMES HORAN,
FLORIST,
BRIDGEFORD, CONN.

2,000 Strong Healthy ROSES.

The following sorts from 4-in. pots:

PERLE DES JARDINS,
CATHERINE MERMET,
MME. DE WATTEVILLE,
MME. CUSIN,
PAPA GONTIER,
THE BRIDE,

\$8.00 per 100.

1,000 Adiantum Roenbeckii, the
very best Maiden Hair for cutting, from
4-inch pots, \$5.00 per 100.

JOHN WHITE,

Waverly Place, ELIZABETH, N. J.

ROSES FOR SALE

5000 LA FRANCE, 3 and 4-inch.....	\$3.00
5000 CATHERINE MERMET, 3 and 4-inch.....	6.00
5000 GONTIER, 3 and 4-inch.....	6.00
5000 BRIDE, 3 and 4-inch.....	6.00
5000 METEOR, 3 and 4-inch.....	8.00

Evans' Rowlandville Nurseries,
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Subscription \$1.00 a year. To Europe, \$1.50.

Advertisements, 10 Cents a Line, Agate;
 Inch, \$1.00; Column, \$4.00;
 Cash with Order.

No Special Position Guaranteed.
 Discounts, 3 months, 5 per cent; 6 months, 10 per cent; 12 months, 20 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Nurseriesmen, and dealers in wares pertaining to those lines (N. Y. Please to remember it).

Orders for less than one-half inch space not accepted.

Advertisements for Sept. 1 issue must reach US by noon, August 25. Address

THE AMERICAN FLORIST CO., Chicago.

THE WORLD'S COLUMBIAN EXPOSITION.

In the July number of the *American Garden* we are instructed that the "horticultural interests of a World's Fair are worthy of a broader conception and treatment than our horticulturists have proposed for them." There should be a great ulterior aim in the project, but this seems farther above the conception of some advocates of an horticultural exposition than are the clouds above the tree tops. * * * It is evident that the leadership of this great enterprise should fall to the Department of Agriculture, for the department alone can furnish the inspiration and the impetus (the italics are ours). And in commenting on the nomination by the Chicago Florist Club of its president as Director of the Horticultural Department the *Garden* tells us that "if it is expected he shall assume the whole leadership of the enterprise it is fatal." The boldest comprehensiveness should characterize this endeavor.

We must admit ignorance of the views mentioned by the *Garden* as held by "some advocates of an horticultural exposition." Neither in Chicago nor in the east have we heard any narrow views expressed concerning the World's Columbian Exposition. We most heartily agree with the editor of the *American Garden* as to the necessity for a "broad conception" a "great ulterior aim" and a "bold comprehensiveness," but *why* the Department of Agriculture can alone furnish the inspiration for our horticultural department, and *why* it will be "fatal" for the leadership to be assumed by the nominee of the Chicago Florist Club is by no means made clear to us.

Granting unhesitatingly the necessity for the assistance of specialists and the value of the co-operation of a great international horticultural congress, yet it can not be denied that there must be executive leadership, some one man must be at the head, and when the editor of the *Garden* declares so emphatically that it would be fatal for that man to be the president of the Chicago Florist Club he must have some reason for this assertion. Either he must mean that he knows the candidate to be personally unfit and lacking in the needed broad gauge requirements, or else we must take him as intimating that it is impossible for any one calling himself a florist to have the bold comprehensiveness which should characterize this endeavor.

The Chicago Florist Club is composed of the combined nurserymen, gardeners and florists of Chicago and vicinity. Who can be more vitally interested than they in the success of the horticultural exhibit at the Columbian Exposition? Who should know better than they whether the west can furnish a leader capable of

making this exhibit a success? Their nominee is not wholly unknown outside of Chicago. He has received the cheerful endorsement of the leading florist clubs of the United States. The nurserymen and seedsman have not hesitated to endorse him. Has the editor of the *Garden* more vital interests at stake, or has he better sources of information than all these, enabling him to assert that the appointment of this particular man would be fatal? Or can it be possible he really seriously believes that the proper man can not be found outside the Department of Agriculture? The florists and the Florist Clubs of the country we believe are entitled to an explanation of the implied slur on their calling. V.

ILL-NATURED CRITICISMS.

In the August number of the *American Garden*, under the heading "Sub-Rosa," appear some comments upon the Society of American Florists which are a vast sight more disgraceful than was the unfortunate Hudson River excursion, the skeleton of which the editor has seen fit to drag from its grave.

The editor of the periodical named says he has "met before with the florists and was disappointed." He "found the convention an unwieldy mass, prone to claptrap."

We don't know how many of the conventions of the S. A. F. he has attended, but as he assumes to know what he is talking about, we presume he must have attended several. In any event his comments are direct insults to the members of a society which has more life and vim in it, and which has accomplished more solid, practical, really beneficial work in one session than any similar organization has in a decade.

Wherein has he found the convention an "unwieldy mass?" Has he found it the least particle more unwieldy than any other society with an equally large membership? Is the large membership a detriment? It is true that the majority of the members are "Hale fellows welmet," and to this fact may be attributed much of the success of the society. The members are not a lot of stiff-backed, theoretical visionaries—they are intensely practical and are not strangers to the art of combining recreation with instruction. Can it be possible that the writer of these insulting paragraphs understands the meaning of the word "claptrap?" Either he does not, or else he is so bound up in his own ideas that there is no sight in his eyes. Let him name an organization whose membership is more earnest in its work than that of the Society of American Florists. Let him name an association which makes less display and accomplishes more substantial results.

"Let us purify it, give it definiteness, straight-forwardness, and dignity," says this critic. The imperfections of this inference would be intolerable if it were not laughable, coming as it does from this exponent of grandiloquent and impractical projects.

The Society of American Florists is not perfect. It is young. It doesn't profess to know everything, and it always welcomes practical suggestions. But it has been modest in its demeanor and that it should be singled out for such absurd and unjust criticism is indeed strange. The society is doing a splendid work and if the writer of these spiteful comments would attend faithfully to the work of the society with the "comprehensiveness" he is so prone to advocate, he would be enabled to add very materially to the

practical value of the periodical he conducts.

WE HAVE received from Mr. John F. Rupp, Shiremanstown, Pa., a description and pencil sketch of an odd freak of the fuchsia. There were two perfect flowers of the Arabella variety, but both joined to the same ovary.

WITH THIS ISSUE the AMERICAN FLORIST enters upon its sixth year, and we are pleased to say that it is with the prospect of being able to still further enlarge its field of usefulness to the florists of America.

The Florists' Hail Association of America will hold its fourth annual meeting at Horticultural Hall, Boston, Wednesday, August 20 at 6:30 p. m.

A. H. PHILA., will find the desired information in our trade directory, price \$2. We can not print portions of the book in these columns.

MR. L. R. KRAMER, Wooster, O., sends us a number of blooms of the spotted calla, all curiously malformed, most of them double.

THE BOSTON daily papers are already devoting considerable space to advance notices of the coming convention of the S. A. F.

Catalogues Received.

J. M. Thorburn & Co., New York, bulbs; Jno. Laing & Sons, London, Eng., roses; Ellwanger & Barry, Rochester, N. Y., strawberries; Godfrey Leubeuf, Argen-teuil, France, dahlias; Chas. D. Ball, Holmesburg, Philadelphia, palms, ferns, etc.; E. H. Krelage & Son, Haarlem, Holland, bulbs; Spring City Nurseries, Huntsville, Ala., nursery stock; Jacques Rolland, Nîmes, France, seeds.

Coming Exhibitions.

August 19-22, Boston.—Annual exhibition Mass. Hort. Society.
 October 28-Nov. 1, Atlanta, Ga.—Chrysanthemum show, Piedmont Exposition Co.
 November 4-6, Orange, N. J.—Chrysanthemum show, New Jersey Floricultural Society.
 November 4-6, London, Ont.—Chrysanthemum show, Forest City Florists and Gardeners' Society.
 November 4-7, Chicago.—Chrysanthemum show, Chicago Florist Club.
 November 4-7, Erie, Pa.—Chrysanthemum show, Erie Chrysanthemum Club.
 November 5-6, Providence, R. I.—Chrysanthemum show, Rhode Island Hort. Society.
 November 10-14, Philadelphia.—Chrysanthemum show, Penna. Hort. Society.
 November 11-13, Boston.—Chrysanthemum show, Mass. Hort. Society.
 November 11-13, Montreal, Canada.—Fall show Montreal Gardeners' and Florists' Club.
 November 11-15, Cincinnati.—Chrysanthemum show, Cincinnati Florist Club.
 November 11-15, Indianapolis.—Chrysanthemum show, Society of Indiana Florists.
 November 12-13, Worcester, Mass.—Chrysanthemum show, Worcester County Hort. Society.
 November 20 —, New York.—Exhibition New York Florist Club.
 November — —, Baltimore.—Fall exhibition Gardeners' Club.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,

And the Choicest ROSES for the

fall and winter season.

Mention American Florist.

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WHOLESALE DEALER IN CUT FLOWERS,

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ESTABLISHED 1877.

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ROSE BUDS IN ANY QUANTITY SHIPPED

ON TELEGRAPHIC ORDERS.

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WHOLESALE FLORISTS

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place
through Music Hall.We keep a large supply of Fancies and Carnations
always on hand. Return telegrams sent
immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL

Mention American Florist.

Wholesale Markets.

Cut Flowers.

	BOSTON, Aug. 9.
Roses, Tea.....	\$1.00
" Fancy.....	2.00 @ 3.00
Gladoluses.....	3.00 @ 4.00
Carnations.....	.35 @ 1.00
Heliotrope.....	.40
Nigella.....	.50
Pinks.....	.80 @ 1.00
Blue pond lilies.....	12.00
Sweet peas.....	.10 @ .15
Sunlax.....	12.50
Adiantums.....	1.00 @ 1.50

	PHILADELPHIA, Aug. 9.
Roses, Beauties.....	\$1.00
" La France.....	3.00 @ 4.00
" Perle.....	2.00 @ 3.00
" Marie Guillot.....	2.00
Carnations.....	.50 @ .75
Gladolus stalks.....	10.00
Tuberose stalks.....	4.00 @ 5.00
Valley.....	4.00
Asters.....	1.00
Sweet peas.....	.50
Corn flowers.....	.50
White hollyhocks.....	1.50
Sunlax.....	1.00
Adiantums.....	1.00

	NEW YORK, Aug. 9.
Roses, Bon Silene.....	.50
" Gontiers.....	.50
" Perle, Sunsets.....	2.00 @ 3.00
" Niphetos.....	2.00 @ 3.00
" Watervilles, Camille.....	2.00
" Jermets, Brides.....	3.00 @ 4.00
" La France, Albany.....	3.00
" Bennetts, Hostes.....	2.00
" Beauties.....	5.00 @ 10.00
Sunlax.....	10.00
Carnations, long.....	1.00
Adiantums.....	1.00

	CHICAGO, Aug. 11.
Roses, Perle, Niphetos.....	\$4.00
" Gontiers.....	2.00 @ 4.00
" Bon Silene.....	2.00 @ 3.00
" Jermets, La France.....	4.00
" Brides.....	3.00
" Am. Beauties.....	10.00
" Bennetts, Dukes.....	1.00
Carnations, short.....	.75 @ 1.00
Carnations, long.....	1.00 @ 1.50
Cattails.....	30.00 @ 40.00
Sunlax.....	10.00 @ 20.00
Valley.....	3.00 @ 4.00
Tuberose.....	1.00
Violets.....	.25 @ .30
Sweet peas.....	.25 @ .30
Adiantums.....	1.00 @ 1.25
Gladolus.....	8.00

WM. J. STEWART,
Cut Flowers & Florists' Supplies

— WHOLESALE —

67 BROMFIELD ST., BOSTON, MASS.

GEO. MULLEN,
WHOLESALE FLORIST.

Florists' Supplies Always in Stock.

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Orders by Mail, Telegraph, Telephone or Express

promptly filled.

WELCH BROS.,
WHOLESALE FLORISTS.

165 Tremont Street, BOSTON, MASS.

We make a specialty of shipping choice Roses and
other Flowers, carefully packed, to all points in
Western and Middle States.

Return Telegram is sent immediately when it

is impossible to fill your order.

EDWARD C. HORAN,
34 W. 29th St., NEW YORK.Having removed to more spacious quarters
(next door) with increased resources and facilities
I am now prepared to furnish at short notice and
in any quantity, selected Roses of every variety,
also all other flowers in market.Roses to be shipped are especially selected,
and packed under personal supervision.

SPECIALTIES:

American Beauty, La France, The Bride,
Mermet, Mme. Hoste, Duchess of Albany.

— WRITE FOR PRICE LIST. —

Return telegrams sent when orders or part of

them cannot be filled.

Mention American Florist.

E. H. HUNT,

79 LAKE STREET, CHICAGO,
Successor toVAUGHAN'S
CUT FLOWER DEPT.Our stock is cut with special reference to shipping
trade, which comprises the greater part of
our business. We therefore claim that we are
better prepared to attend to the wants of FLOWER
BUYERS, outside of Chicago, than any house in
the West.OPEN DAILY: { Week days till 7 P. M.
Sundays till 12 M.KENNICOTT BROS.
WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

We always have choice, Fresh Cut Flowers in
season. The best packers in the trade. Orders
promptly shipped. Store open until 7 P. M.
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Consignments Solicited. Special attention paid to
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teed. Consignments solicited.

CUT FLOWERS

The choicest Cut Flowers at lowest market rates
shipped C. O. D. Telephone connection. Use A. F.
Code when ordering by telegraph. For prices, etc.
Address,

J. L. DILLON, BLOOMSBURG, PA.

DIRECTORY.

Every Florist, Nurseryman and

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AMERICAN FLORIST CO., Chicago.

THE
EMERSON
PATENT BINDER

Price postpaid
75 CENTS.

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appearance of
the Binder when
quite full of

THE
American Florist.

Every subscriber
should have one.

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☞ The Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McVULLOUGH, Cincinnati, president; JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

ROCKFORD, ILL., AUG. 1.—The Geo. S. Haskell Seed Co. succeeds the firm of Geo. S. Haskell & Co.

J. A. EVERETT who recently failed at Indianapolis, is reported to be offering creditors 25 cents on the dollar for their claims.

S. F. LEONARD, of Chicago, suffered quite a loss by the burning of his storage seed house on the night of August 9, insured.

NEW YORK.—The Peter Henderson Co. of Jersey City, has filed certificates of organization in the office of the Secretary of State at Trenton. The capital stock is \$500,000, and the object is to grow, buy and sell seeds, plants and herbs, and the conducting of the business of horticulture, floriculture and agriculture. The stockholders are Alfred Henderson, Charles Henderson and Robert Little, of Jersey City.

Overhead Heating.

[From a paper read before the Buffalo Florists' Club, by E. S. Bartholomew, Westfield, N. Y.]

Our glass roofs, practically, are the same as a thin sheet of ice, whenever the outside temperature is below 32°, admitting the cold very rapidly. The question arises, where shall we place our radiation, so as to meet this cold air and prevent its coming in contact with the delicate foliage of the plants under cultivation, causing disease, mildew, etc. Shall it be near the glass overhead, or near the floor of the house? Common sense and reason would say, place the radiation where it will meet the cold air as soon as possible after entering the house, warming it, causing air currents, thus diffusing the radiated heat, giving a very even temperature through the entire house. If the cold air or frost, coming through the glass be met at once by the heat radiated from the suspended pipes overhead, there can be no danger from frost in any part of the house.

In order to test the question under discussion, in my mind, I instituted some experimental tests to ascertain whether by placing the radiating pipes beneath the benches, we obtain the best possible results in plant growth and blooms, and whether the cold coming through the glass did not too often reach the plants, doing injury to the foliage. Another question arose, whether by underheating we did not surround the roots of our plants with too high a temperature with a comparatively too low temperature of the atmosphere surrounding the tops, to give large blooms with good substance of the petals. To assist in forming my conclusions I instituted a series of experiments as to the comparative temperature of the soil surrounding the roots and tops of the plants while producing their most active growth and greatest amount of blooms, out of doors as well as under glass, the amount of moisture being equal or nearly so. The several thermometric tests made indicated from 10° to 20° difference between the temperature of the soil and the atmosphere, when the plants were making their most active growth, giving a profusion of blooms. The soil indicated from 40° to 50°, while

the atmosphere was from 55° to 70°. These tests were made during spring time. The result of these experiments was the conclusion that radiating pipes suspended near the glass would give results more like outdoor conditions than the low down radiation. Two years of experience with overhead radiation has given me even better results than I anticipated. I have also become more satisfied that most of the diseases of our plants in our plant houses are directly traceable to a violation of nature's law in the methods of heating and ventilating plant houses as at present practiced.

The advantages, I have found so far, are: First, it does not require so great an outlay for piping a house of lineal foot of 1½ inch for steam is equal to a lineal foot of 4-inch pipe for hot water underneath the benches. With steam at two pounds pressure I have found that a lineal foot of 1½-inch pipe will give sufficient radiation, if steam is used, for three square feet of glass; if hot water, then 1½-inch pipe is sufficient for the same amount of glass. This for zero outside and 60° inside.

Second, I have found by thermometrical tests that the heat is very much more evenly diffused throughout the entire house, even within two inches of the floor, even under the benches not to exceed three degrees lower than at six feet above the floor.

Third, air currents are formed much more completely than by underneath radiation. The pipes being suspended just beneath the glass, the heat radiated from them immediately comes in contact with the cold air sliding along just beneath the glass, imparts heat to it and as it passes the line of pipes in its descent it receives more heat, which it carries along imparting it slowly until the entire atmosphere of the house is evenly warmed, forming upward and downward currents.

Fourth, The molecular or wavy action given to the air just beneath the glass by the radiation of the heat from the pipes, seems to have the effect of intensifying the light as it passes through it, and this intensification gives a greater amount of radiant energy, thus assisting in the diffusion of heat tending to the equalization of temperature or equilibrium. That this intensified condition exists is shown by the fact that on very cloudy days, without any change in the thermometric condition of the pipes, while dark and after light appears, when the atmosphere is very densely cloudy, the thermometer, as the light increases, will show a rise of several degrees according to the intensity of the clouds. That this takes place, to some extent, with under radiation is true, but not to the extent of the overhead. This intensified light has very much to do with the greater vigor and healthfulness of plants, for it is a well known fact that the most healthful plants, the most intense coloring in blooms are found on that portion of the earth where the atmosphere is clearest and the greatest number of rays of light strike the earth on a given amount of surface.

Fifth, By the overhead system of heating plant houses the soil on the benches is warmed from the surface downward, just as we find it out of doors, the evaporation from the surface is slower, carries away the heat, the roots of the plants are therefore in a cool, moist soil, consequently healthier than where the heat is applied directly beneath the benches in a soil that is dry, a high temperature which forces the moisture rapidly away. Watering is not needed so copiously at each

watering, very rarely so as to run through.

I am of the opinion that the atmosphere is, as a whole, moister, yet I have not used a hygrometer or wet bulb thermometer to determine that fact, judging by the sense of feeling. From my two years experience in the use of overhead radiation, the healthfulness of my plants, the abundance and size of the blooms, I am very sure I shall not return to the old system of heating.

To those who are disposed to be critical or prejudiced against any innovation on old time ideas, I will simply say, that in plant houses where pipes are not used under the center benches, or where solid beds are used, they are warmed by the general principle involved in overhead heating, viz: by diffused radiated heat, and I feel quite assured that the plants so grown on them, have ever been quite as healthy and given quite as abundant blooms, at least I know of roses that have been planted twelve years in a solid bed and are at this time perfectly healthy and giving abundant blooms.

News Notes.

READING, PA.—No loss from hail here during the recent storm.

NEW YORK.—J. Arnot Penman has removed to 7 Warren street.

NEW YORK.—James Purdy, the wholesale florist, has removed to 112 West 40th street.

PHILADELPHIA.—The recent hail storms did not touch this city. No damage reported by any of the florists here.

PHILADELPHIA.—Mr. Ernst Kauffman will return from his European trip in time to attend the Boston convention.

NEW CASTLE, PA.—No hail fell here during the recent storm. Paul Butz & Son are building a new rose house 20x100.

DOWLESTOWN, PA.—Mr. John Y. Smith's loss from the June hail storm amounted to \$2,000. It was covered by insurance.

HELENA, MONT.—Mr. L. B. Wells, the florist, was killed recently by being thrown from his wagon by a runaway team.

CRETE, NEB.—Florist W. J. Hesser, of Plattsmouth, made a beautiful display at the State Fair here, which received much praise.

KALAMAZOO, MICH.—G. Van Bochove & Bro. have completed four new houses, two 80x20 each and two 100x20 each. All heated by steam.

SPRINGFIELD, MASS.—An elaborate floral design in the form of a horse car was recently arranged by Florist W. F. Gale for the funeral of a street railroad magnate.

PHILADELPHIA.—Final arrangements for the coming trip to Boston were made at the meeting of the Florists' Club on the 5th inst. The delegation from this city will number from 75 to 100.

ALLENTOWN, PA.—The only florist who suffered any damage by the recent storm in this section was A. B. Ellsworth who had several ventilators blown down. The storm was not accompanied by hail here.

WILLIAMSPORT, PA.—On July 14 this city was visited by a severe hail and wind storm. Evenden Bros. lost from \$1,000 to \$1,500 in glass and vegetables. Only one mile west Harry Chapin lost only 50 panes of single thick glass.

INDIANAPOLIS.—The Indiana State Fair will be held in this city September 22 to 27. Premiums to the amount of \$750 are offered in the floral department. The schedule for this department was submitted to and endorsed by the Society of Indiana Florists before being printed.

WELLSBORO, PA.—Florist W. H. Whiting reports that on July 20 the thermometer registered 32° and on July 21 42°, not raising above 71° during the day. On last Christmas day it stood 75°. With floods to June 1 and frosts in July crop prospects, excepting hay, are very poor.

NEWPORT, R. I.—Newport is to have a grand flower show early in September. The Casino governors are to manage the affair and they will meet all the losses, and should there be a surplus it will go into the Casino treasury. Newport will be able to make a creditable showing, and the exhibits will be well worth seeing.

ALBANY, N. Y.—Mr. F. Goldring, formerly at Mr. Corning's, has formed a partnership with Messrs. H. G. Eyres and S. Goldring under the firm name of F. Goldring & Co. The new firm have leased the greenhouse establishment of Col. Hendrick, who has retired from the business. There is about 50,000 feet of glass, now devoted principally to roses, carnations and violets, but large stocks of palms and ferns will soon be added. The concern will confine itself to the wholesale trade.

WICHITA, KAN.—The College Hill Floral Co. has leased the Fairmount greenhouses built by Farnum, of New Hampshire. The company will change their name to the Fairmount Floral Co. The above house is the best built of any house west of the Mississippi, it has 5,000 feet of best 16-inch double glass and is being fitted up for steam and will place a boiler able to carry any desired temperature. This will give the company 8,000 feet of glass. They propose also to put a store and greenhouse in the business portion of the city and will issue a wholesale and retail catalogue January 1.

NORRISTOWN, PA.—A storm of unusual severity passed over Norristown on the evening of July 18 about fifteen minutes past six and lasting about fifteen minutes, doing much damage to skylights and garden plants. No such hail as fell has been seen about here for over 30 years. After the first heavy dash of rain hailstones the size of pensils, increasing in size, however, until they were as big as hickory nuts. Many of the hail stones were beautiful specimens. In the center of each was a nucleus of snow surrounded by clear ice through which radiated numerous little fissures. The sufferers are: E. Metcalf, five houses, loses 900 lights 10x12, no insurance, he also lost about 100 fancy fish from his lily pond by overflow; Wm. Yeager fortunately was repainting his sash from four greenhouses and had them piled up, thereby only losing 12 lights 8x10; Jos. N. King, one house, loses 45 lights 8x10, no insurance; J. Cunningham was kindly passed by.

INDIANAPOLIS.—The Society of Indiana Florists met August 1 and appointed Anthony Wiegand, Will Bertermann and John Riemann a committee to inspect Floral Hall, the new building on the State fair ground, and report whether it is what the society was led to expect. The committee was instructed to secure the use of the hall exclusively for florists,

in order to give room for the great display intended. The recommendation of the Chicago florists as to the appointment of J. D. Reynolds as commissioner of horticulture in the World's Fair, was heartily indorsed. It was decided to ask the Council for a lower rate of rent for Tomlinson Hall during the coming chrysanthemum show in November. It will be urged that the show is not a money-making transaction, and usually winds up with a deficit. The experiment of selling season as well as single tickets will be tried this year, and in order to work up a public interest meetings will begin to be held in October, at which essays relating to flowers and music will be the order. Amateur flower growers will be particularly invited to take part. President Langstaff, J. J. B. Hatfield and Will Bertermann were appointed to perfect arrangements for these meetings.

S. A. F. Committee on Nomenclature.

JAMES D. RAYNOLDS, Riverside, Ill., Chairman.

Roses:

ROBERT CRAIG, 49th & Market Sts., Phila., Pa.
EDWIN LONSDALE, Chestnut Hill, Phila., Pa.
ERNEST ASMUS, West Hoboken, N. J.

Carnations

A. E. WHITTLE, Albany, N. Y.
JOHN THORPE, Pearl River, N. Y.
Wm. FALCONER, Glen Cove, N. Y.

Palms, Ferns, and like Decorative Plants:

CHAS. D. BALL, Holmesburgh, Phila., Pa.
JOHN BURTON, Chestnut Hill, Phila., Pa.
W. R. SMITH, Botanic Garden, Washington, D. C.

Chrysanthemums:

JOHN THORPE, Pearl River, N. Y.
Wm. FALCONER, Glen Cove, N. Y.
J. M. KELLER, Bay Ridge, N. Y.

Bedding Plants:

G. L. GRANT, 54 La Salle St., Chicago, Ill.
ROBERT CRAIG, 49th & Market Sts., Phila., Pa.
J. M. KELLER, Bay Ridge, N. Y.
A. E. WHITTLE, Albany, N. Y.

Orchids:

DAVID ALLAN, Mt. Auburn, Mass.
BENJ. GREY, Malden, Mass.
Wm. FALCONER, Glen Cove, N. Y.
J. FOSTERMAN, Newtown, N. Y.

FOURTH INDIANAPOLIS CHRYSANTHEMUM SHOW, NOVEMBER 11TH TO 15TH, 1890.

Attention Chrysanthemum Growers!

The following extraordinary Premiums offered for Seedlings, viz: **\$100 CASH** for the best New Named Seedling not yet disseminated—four blooms on long stems.

Also, **\$100 CASH** for best Six New varieties of Chrysanthemums not in commerce, and never before exhibited at Indianapolis, not less than three nor more than six blooms of each variety on long stems. Must be exhibitor's own production, or must have been in his possession at least three months previous.

ALSO, SILVER CUP, BEST UNNAMED SEEDLING,
four blooms on long stems.

For full Premium List and particulars.

ADDRESS **WM. G. BERTERMANN, Sec'y,**
INDIANAPOLIS, IND.

We can now furnish in any quantity desired Debit and Credit Tickets of which we give below samples reduced one-half in size.

DEBIT. <i>Jan 10 1889</i>			
<i>John Smith</i>			
100	<i>Viburnum</i>	3-	
50	<i>Geranium</i>	4-	
		7-	

CREDIT. <i>Jan 10 1889</i>			
<i>Richard Roe</i>			
500	<i>4-inch pots</i>	5-	
175	<i>2 1/2 "</i>	5-	
		10-	

The debits are printed in black and the credits in red, so they can be readily distinguished. They are put up in blocks of 100; 50 of each, placed back to back; thus but one block will have to be carried. By means of these tickets an entry of a sale or receipt of goods can be made anywhere—in the home or in the field—and afterwards filed. Tickets for each transaction in your business will make data from which a book-keeper can readily work. With this simple and easy means of keeping a record of your business can you afford to neglect so important a matter?

Price of Tickets, postpaid, 100, 20c.; 200, 35c.; 300, 50c.; 500, 75c.; 1000, \$1.40.

AMERICAN FLORIST CO.,
54 La Salle Street, CHICAGO.

WE STILL HAVE A GOOD
SUPPLY OF

CHINESE PRIMULA SEED

OF CHOICEST STRAINS.

JOHN GARDINER & CO.,

21 NORTH 13TH STREET,
PHILADELPHIA, PA.

GRACE WILDER,
AND OTHER FINE CARNATIONS.

FIELD GROWN PLANTS.

H. E. CHITTY,
Paterson, N. J.

CARNATIONS.

10,000 FIELD GROWN, READY IN SEPT.

MRS. FISHER, SNOWDON.
GRACE WILDER, VICTOR.
ALEXANDER, ELEGANCE.
HINZE'S WHITE, ANNA WEBB.

Also field grown CHRYSANTHEMUMS.
Will make Contracts Now.

R. T. LOMBARD, WAYLAND, MASS.

CARNATIONS.

Grace Wilder, White Grace Wilder,
Florence, E. C. Also Bouvardias, strong
ground plants, healthy stock, ready Sept.
1st. Send your order early.

PRIMROSES out of 2½-in. pots, \$4 per 100
SMILAX out of 3-inch pots, \$3 per 100
WM. A. BOCK, North Cambridge, Mass.

CARNATIONS.

Hope to have a fine lot of **Field-grown**
plants in the Fall.

Will make contracts **NOW**.

W. R. SHELWIRE, Carnation Grower,
AVONDALE, PA.

ROSES FOR SALE,

Or to Exchange for Palms or Ficus.

Fine healthy 3-inch stock, AMERICAN BEAUTY,
ready for 4, \$12.00 to 100.
PERLE LA FRANCE, MERMET, BON SILENE
PIERRE GUILLOT, \$8.00 to 100.
Will have the garden grown Bouvardias and Car-
nations.

ALBERT FUCHS, 459 E. Division St., Chicago.

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NAR-

CISSUS, SPIRÆA, LILIES

OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Whole-
sale Importers should write us for prices.

Our new Bulb Catalogue is now ready.
Will be mailed free on application.

C. H. JOOSTEN,
3 Coenties Slip, NEW YORK,

-IMPORTER OF-

FORCING BULBS,
IMPORTED HARDY ROSES,

Strong Clematis, Etc., Etc.

CATALOGUES.

FLORISTS
and
SEEDSMEN
write to

The Aldine Printing Works, Cincinnati, O.,
for samples and prices before ordering
elsewhere.

[Mention The American Florist.]

Bulbs! Bulbs! Bulbs!

We beg to offer the following Bulbs for Early Forcing:

LILIUM HARRISII.....	5 to 7 inches in circumference
LILIUM HARRISII.....	7 to 9 " "
CALLIA ÆTHIOPIA.....	First Size
CALLIA ÆTHIOPIA.....	Second Size
FREESIA REFRACTA ALBA, ETC., ETC. SPECIAL PRICES ON APPLICATION.	

SEEDS FOR PRESENT SOWING.

Extra choice strains of Primula Chinensis, Calceolaria, Cineraria, Pansy, etc., 50c. and
\$1 per pkt. An extra selected strain of Highland Mary Parsy, very fine, per pkt. \$2.

DAISY Bellis Perennis fl. pl.....	Alba.....	50 cts. per packet.
" " " Longfellow.....	" " " ".....	
" " " Snowball.....	" " " ".....	

V. H. HALLOCK & SON,
QUEENS, N. Y.

V. H. H. & Son beg to state they always have a number of first class gardeners' names on their books
waiting for situations, and would be glad to hear from anyone requiring same.

GRAND SPECIAL DYE OF NATURAL FRENCH IMMORTELLES, WHITE AND ALL COLORS.

DYEING AND BLEACHING BY GERMAN PROCESS.

I offer Immortelles original and by my special process. My large dyeing estab-
lishment enables me to furnish perfect work and irreproachable colors at excessively
low prices.

Since 1860 my house has been occupied with this specialty alone, and I have re-
nounced all other branches of my trade.

☞ SAMPLES AND PRICES FREE ON APPLICATION.

JOSEPH DEFILIPPI, OLLIOULES, var, FRANCE.

CABLE ADDRESS: "JOSFILIPPI, OLLIOULES."

WE SOLICIT YOUR ORDERS FOR

LILIUM HARRISII,
ROMAN AND DUTCH HYACINTHS,
CHINESE SACRED LILIES,
and other Imported Bulbs; also for AZALEA INDICA, and choice Three year old
HOLLAND GROWN CLEMATIS.

☞ For prices F. O. B. at St. Louis, address

THE MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

HULSEBOSCH BROS.,

-GROWERS OF-

DUTCH BULBS, FLOWER ROOTS & PLANTS

OVERVEEN, near Haarlem, HOLLAND.

Offer to the Trade as usual all kinds of the best

Hyacinths, Tulips, Crocus, Lilies

Narcissus, Roses, Azaleas,

Rhododendrons, &c., &c.

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Illustrated Drawings (book shape) from nature,
by Gertrude Hartland, of over 30 finest sorts. The
book which is copyrighted, is put up specially as a
TRADE REFERENCE: finished in the most
perfect style: toned paper, gilt edge, etc. and the
drawings are considered the most faithful rep-
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paid to the United States on receipt of postal order
for One Shilling and Sixpence. This will include a
separate wholesale list of forcing sorts, for a guar-
anteed July and August delivery, direct from Litter-
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WM. BAYLOR HARTLAND, Seedsmen,
24 Patrick St., CORK, IRELAND.
Daffodil grounds (10 acres) ARI- CAIRN, CORK.

Florist Bulbs and
CUT FLOWERS.

THE WISCONSIN FLOWER EXCHANGE,
133 Mason Street, MILWAUKEE, WIS.

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No. 136 & 138 W. 24TH ST.,

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Importers and Dealers in

FLORISTS' SUPPLIES, SEEDS,
BULBS, PLANTS, ETC.

WE WANT YOUR ORDERS NOW

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CHINESE NARCISSUS,
AURATUM, LONGIFLORUM, ALBUM,
RUBRUM, KRAMERI, ELEGANS, AND
OTHER JAPANESE BULBS.

CALIFORNIA LILY BULBS.

Australian Palm Seeds.

California Palm and Flower Seeds.

JAPAN PALM, SHRUB AND FLOWER SEEDS.

Our new Wholesale List of above, and of Trees,
Ornamental Shrubs, Plants, Cuttings, etc., now
ready. SEND FOR IT.

H. H. BERGER & CO.,
P. O. Box 1501, SAN FRANCISCO, CAL.

Baltimore.

The Gardeners' Club of Baltimore and the Washington Florists' Club of Washington held a reunion August 6 at Bay Ridge, about 350 persons being present from Washington and a large number from Baltimore—relatives and friends of the two organizations. The Washington Club entertained the Baltimore Club at dinner, while at supper the Baltimoreans were the entertainers.

The Washington Club, which came by special train and arrived at Bay Ridge a short time ahead of the steamer Columbia, met the Baltimore Club at the wharf and extended to them a cordial greeting. Mr. Robert Bowdler, president of the Washington Club, made a short address of welcome, to which Mr. Wm. McRoberts, president of the Baltimore Gardeners' Club, responded. Mr. Charles F. Hale was chairman of the committee of arrangements for the Washington Club, and Mr. Charles G. Campbell for the Baltimore Club.

At an informal meeting held during the day Mr. Wm. Fraser extended an invitation to the Washington Club to designate members of the club to act as judges at the flower show which is to be held in Baltimore in November next, from the 11th to the 14th inclusive. The invitation was accepted. Mr. Seidewitz also broached the subject of extending an invitation to the Society of American Florists, which meets in Boston this month, to make either Baltimore or Washington the place of meeting next year, the two clubs to unite in entertaining the society which ever place may be designated. Mr. Wm. Cadmus, of the Washington Club, cordially endorsed the suggestion. No definite action was taken, but will be at called meetings of the two clubs previous to the 14th inst.

Among the amusements of the day at the Ridge the two clubs had a shooting match, the Baltimore club carrying off first honors in the shape of a box of cigars, while the Washington Club took the second prize, a red lantern, which, as the club's secretary remarked, would serve to light them on to victory at the next match.

Australian Acacias.

I would like to ask some brother florist of experience as to the best method of cultivating the Australian acacias and the best species of same. A. M. Massachusetts.

OUR NEW

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giving a complete and accurate list of the Florists, Nurserymen and Seedsmen of the United States and Canada is

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Price, \$2.00.

AMERICAN FLORIST CO.,

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Phoenix reclinata . . . \$6, \$7-50, \$9, \$12, \$15, \$18, \$21 and \$30 per dozen
 " Ruplicola. **FOUNTAIN PALM**, \$1.00, \$1.50, \$2.50 and \$3 each.
 Cycas revoluta, **SAGE PALM**, all established plants with perfect leaves, \$15, \$20, \$25, \$35 and \$50 per dozen, \$10 and upwards in pairs.
 Ficus elastica, \$5, \$10, \$12, \$15, \$18 & \$24 per doz.
 Pandanus utilis seedlings, thumb pots, \$5 per 100 \$1, \$5, \$9, \$12, \$15, \$18 & \$24 per doz.
 Pandanus Veitchii, \$12, \$15, \$21 and \$30 per doz.
 Dracena terminalis, . . . \$10, \$15 and \$20 per 100 " \$2, \$15 \$18 and \$30 per doz.
 " Stricta grande, . . . \$18 and \$24 per doz.
 " Fragrans, \$20, \$25 and \$45 per 100. \$9 and \$12 per dozen.

SEND FOR SPECIAL

All Delegates to the Convention are cordially invited to visit our Nurseries.

SIEBRECHT & WADLEY, NEW ROCHELLE, N. Y.

ORCHIDS! ORCHIDS!

Many additions of Choice New varieties this season.

Send for New Catalogue.

WM. MATHEWS,
UTICA, N. Y.

CUT BLOOMS AT ALL SEASONS.

ORCHIDS! ORCHIDS!

Lowest Prices Ever Offered.

Send for special prices of **SURPLUS STOCK** which must be sold now.

Established 1854. **BRACKENRIDGE & CO.,**
Govanstown, (Baltimore), Md.

PRIVATE COLLECTION OF ORCHIDS FOR SALE.

All Standard Varieties. Many Rare Plants.

The above collection of the late GENERAL L. PERRINE, of Trenton, N. J., will be sold in its entirety to close his estate. Apply to

LEWIS PERRINE, Jr., Atty., Trenton, N. J.

FARLEYENSE

in 2 1/2 inch, ready to shift into 4 inch.

\$25.00 per 100.

\$200.00 per 1000.

FISHER BROS. & CO.,
MONTVALE, MASS.

JAPANESE PLANTS,

Trees, Shrubs, Bulbs, Seeds, Etc., offered at low prices by

FELIX GONZALEZ & CO.

Direct Importers and Exporters,

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Wholesale Catalogue mailed free on application.

You are CORDIALLY INVITED to visit the exhibit of our Furman Boilers which we shall make at the approaching Boston Convention, August 10, 20, 21 and 22.
 HERRINGMAN MFG CO., Geneva, N. Y.

ROSE HILL NURSERIES
SPECIAL OFFER.
PALMS.

Arca Catache, beautiful new Palm, \$18 & \$20 per doz.
 lutescens, \$10, \$25, \$35, \$45 and \$50 per doz.
 " Verschaffeltii, \$9, \$12, \$15, \$18, \$20 and \$24 per doz.
 Kentia, seedlings in thumb pots, Belmoriana & Forsteriana, \$20, \$25 & \$50 per 100. \$12, \$15, \$18 & \$24 per doz.
 La anas, seedlings in thumb pots, \$9, 100 \$5 per 100
 " extra strong, \$10 per 100
 " strong plants, \$30, \$45 and \$65 per 100. \$9, \$12, \$15, \$20, \$25 and \$31 per dozen
 Pitychospira Alexandra, \$9, \$9, \$15, \$18 and \$24 per doz.
 Searothia Elegans, . . . \$6, \$12, \$15, \$18 and \$24 per doz.

FERNS.

diantum cuneatum, \$8, \$10, \$15 and \$20 per 100
 " Rhodophyllum, the pink leaf Maiden-hair, \$3 and \$5 per doz.
 Pteris tremula \$10 and \$20 per 100
 Assorted Ferns in best varieties, per 100 \$5; good selection.

ORCHIDS.

Assorted, cheap, \$7 \$10 and \$15 per dozen
 Very good, \$18, \$24 and \$30 per dozen

Samples of above enumerated plants will be on Exhibition in Convention Hall, Boston, Mass. TRADE PRICE LIST.

THE SEVEN OAKS NURSERIES.

NEW CROP

PALM AND PANDANUS SEEDS.

We have just received a large invoice of the following, which we can offer at 20 per cent below the usual prices:

Latania Borbonica, 65c. per lb.: \$55 per 100 lbs.
 Thrinax elegans, \$5 per Thousand Seeds.
 " \$5 per 1000.
 " \$2.25
 Livistona oliviformis, 10 seeds, 75c.; 100 \$6.
 Pandanus utilis, 100 seeds, 85c.; 1000 \$7.50.

1000 feet of sound Dracena, canes, Fragrans, Terminalis, and Farrier. State quantity wanted, and price will be given on application.

R. D. HOYT,

BAY VIEW, FLORIDA.

PALMS.

LATANIA.

KENTIA.

ARECA.

Apply to **EDWIN LONSDALE,**

WYNDMOOR, CHESTNUT HILL,

PHILADELPHIA, PA.

Mention American Florist.

Choice Stock Cheap.

Primula Obconica, strong 3 in.	Per 100
Cannas, choice varieties.	3.00
Geranium, in 16 choice varieties, 2 in.	3.00
Geranium White Swan, 2 in.	3.00
Geranium Rose Scented, 2 in.	3.00
Fuchsias, choice young stock, 2 in.	4.00
Dusty Miller (Centauria gymnocarpa).	2.00
Abutilons, 4 varieties.	5.10
Heliotrope Garfield, 2 in.	3.00
Trailing Vinca Major, 2 in.	2.00
Violeta Marie Louise and white.	2.00
Rose Ribini, 2 in.	4.00

25 or 50 of any the above at the 100 rate

Address **N. S. GRIFFITH,**
JACKSON CO. INDEPENDENCE, MO.

(Independence is well located for shipping, being 8 miles east of Kansas City.)

ORIGINAL AND LARGEST GROWERS OF

LILIUM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG YIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 140 in length, of a crop of *Liliium Harrisii* in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but, by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fills in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 20,000 bulbs for his own use. We hear it said occasionally that *Liliium Harrisii* flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as HEADQUARTERS FOR THE BERMUDA EASTER LILY; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP OF 1890, over

— HALF A MILLION BULBS. —

Be sure you get the genuine *Liliium Harrisii*. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant *L. longiflorum* in Bermuda, planting it with *Harrisii* to increase their stock rapidly when *Harrisii* was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand; "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Toronto, Ontario.

The exhibits at the annual flower show of the Toronto Electoral District Society were excellent and there was a gratifyingly large attendance.

In plants first premiums were awarded to John Chambers for 6 achimenes, 6 fancy caladiums, 3 cannas, 6 cannas, 3 leycopodiums, 6 stove or greenhouse plants, 6 stove or greenhouse plants in flower, 3 stove or greenhouse plants, 12 sub-tropical bedding plants, best collection of tea or Bourbon roses; to Sir D. L. Macpherson for 3 anthuriums, 3 exotic ferns, specimen orchid in flower, 3 palms; to John Cottrell for 2 hanging baskets filled with flowering plants, 2 hanging baskets filled with foliage plants; to George Reeves for 12 tuberous begonias, 6 foliage begonias, 6 exotic ferns, 2 specimen tree ferns, 3 varieties ficomias, specimen palm, 6 palms; to the Horticultural Gardens for 6 flowering begonias, specimen zonal geraniums, 6 single zonal geraniums, table 4x10 feet most tastefully arranged with plants in pots; to Central Prison for 6 coleus, 3 new coleus, plant trained on trellis, 12 stove or greenhouse plants distinct varieties; to Robert Murray for specimen fuchsia, 3 single fuchsias, 6 single or double fuchsias, 6 silver and golden tri-color geraniums; to Mantion Bros. for specimen double zonal geranium, 6 double ditto, 3 pelchids in flower, collection of orchids; to Joseph Graham for 12 distinct varieties of coleus; to Noah Sunley for 3 new varieties of geraniums; to J. Finlay for 3 lilies, 6 distinct varieties of palms, 6 single petunias, 6 double petunias, 3 selaginellas; to A. Gilchrist for ornamental leaved cannas, insectivorous plants.

In cut flowers and designs first premiums were awarded to Mantion Bros. for cross of flowers, 3 blooms of roses, bridal bouquet, 6 breast spray bouquets for ladies; to Joseph Graham for collection of annuals, collection Phlox Drummondii, collection hardy herbaceous plants; to the Horticultural Gardens for table bouquet, 12 single petunias, 5 spikes stocks of distinct varieties; to Granger Bros. for hand bouquet, bouquet of long stem roses loosely arranged, group of three hand bouquets, 12 inch basket of flowers, collection of dahlias, wreath of flowers; to John Cottrell for 12 button hole bouquets, funeral design; to John Chambers for 6 carnations and picotees, 6 blooms tea or Bourbon roses, 12 lilies stock, collection of tea or Bourbon roses; to J. Finlay for collection dianthus; to Sir D. L. Macpherson for dinner table design; to Noah Sunley for 12 double petunias, collection of 24 petunias, 24 distinct blooms of pansies, collection sweet williams, 12 trusses verbenas; to A. Gilchrist for 12 distinct blooms of pansies; to Thomas Carter for collection of verbenas, collection of coxcombs; to A. Terryberry for collection of zinnias; to Wm. Joy for collection of carnations.

Field Grown Carnations.

Ready Sept. 1st.

Field Grown Stevias.

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Pot Grown Chrysanthemums.

Fine lot of M. Neil Roses.

Ready now.

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PRIMULA OBCONICA SEED.**NEW CROP NOW READY.**

Primula Obconica.....pkt. (1000 seeds), \$.75
Primula Fluribunda, crop 1888.....pkt. (1000 seeds), .25
Pansy Seed, Triumfedeau, choice mixed, pkt. .25
1/2 ounce.....1.00

**I. N. KRAMER & SON,
MARION, IOWA.****SMILAX.**

Fine thrifty plants from 2 1/2-inch pots,

\$3.00 per 100; \$25.00 per 1000.

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Pot in Aug. and Sept. and they will bloom in greenhouse from Oct. to March. The following shades: Dark red, crimson, scarlet, rose, pink, orange, yellow, white with rose, pure white, best cut flower.

Each color, per 100, \$2.00.
Above varieties per 100 \$1.50, per 1000 \$15.

Dracena indivisa, 2-in. pots, per 100 \$2, postpaid.

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4 to 5 feet.....25.00

Submit list of wants and other varieties for low rates, packed 1 o. b. cars here.

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Fine, thrifty plants from 2-in. pots, ready for 3-inch.

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White, tall flower stems; White Magnifica; Dark Red, large flowers; Bright Rose Color; Crimson, spotted; Striped, red on white ground; Cheswick Red; Dark Red; Carter's Blue; Fern Leaved.

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We ship by Fast Freight, or by Express, as directed.

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I offer the following in good healthy condition:

300 Perles, 3-inch..... 8 cts
300 La France, 3-inch..... 8 cts
100 100..... 10 cts
120 Fuchsia fulgens, 3-inch..... 6 cts
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Can use good 2 1/2 or 3-inch Smilax in exchange.

JOS. E. BONSAI,**308 Garfield Ave., SALEM, OHIO.****FERNs.**

A. Cuneatum, fine plants for shifting.
ROSES, 3 inch, for immediate bedding,
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BEAUTIFUL
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GREVILLEA ROBUSTA.

This is an Australian tree, commonly known in its own country as "Silk Oak." It has been grown for years in California as an ornamental shade tree, planted on the lawn or along the sidewalk. It forms a beautiful plant, and is sure to find its way into general cultivation as an ornamental pot plant for house decoration. The leaves are in all appearance like the compound fronds of a fern; they are alternate and not deciduous, which fact makes the plant doubly beautiful. The curved, drooping habit of the Frondose leaves is a very graceful feature of the plant; as the new leaves appear they are pink, changing gradually to yellow, light green and dark green; the effect is most beautiful in the young plants. The plant grows with a straight, upright stalk, and no branching until it has gained considerable height; but by "pinching" out the head it can be made to throw out later branches at any height desired. For pot culture, to which we will be confined on account of low winter temperature, a plant headed back at two or three feet would soon form a specimen foliage plant, that would command as much admiration as a stately palm, a spreading tree fern, and be as useful for parlor or stage decoration. It is also beautiful when small for ferneries. It will take the place of Cocos for centers, and for many other decorations it takes the place of Adiantum ferns. The plants we offer are from 2½ to 3 inch pots.

We Will Send

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They will help you to better priced orders for designs, bouquets, etc., as they give customers an exact idea of what to expect for their money. They will educate to the making up of more stylish work.

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BRANCH OFFICES—Chicago, Fort Worth, Texas,
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Spikes and Gum.

A florist whose place of business is near Eighth avenue, has this card in his show window: "Gardens laid out, kept in order and free of cats." He says he is very busy from April till December. "I charge," he remarked, "from \$10 to \$15 in fixing up a front yard or a back yard, and \$2 a month for keeping the yard blossoming with flowers. When I was in business down town I never received any orders to beautify grass plots. People up here, however, think it is country-like, you know. What plants do I use in fixing up a yard? Why, geraniums, pansies, verbenas and other plants that bloom during the season. How do I keep cats out of a back yard? Spikes and gum, by gosh."—*New York World.*

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Will some one who has tried it give me their experience in using city steam for heating greenhouses? Is there any danger of being cut off by accident?

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1 1/2"	5.50	7 1/2"	3.50
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3"	2.25	11"	1.00
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All pots shipped at fifth-class freight rates. Terms cash.

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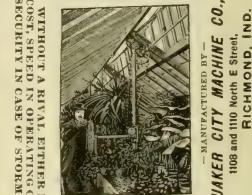
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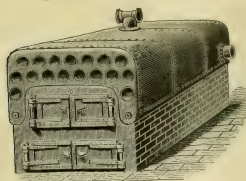


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Glazed on the

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THE
BEST,
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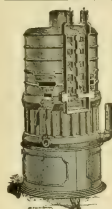
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2 "	3 32	3168	11 00	10 50	4 "	9 25	570	5 50	5 25
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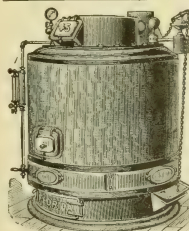
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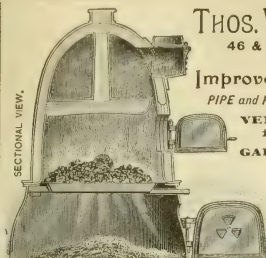
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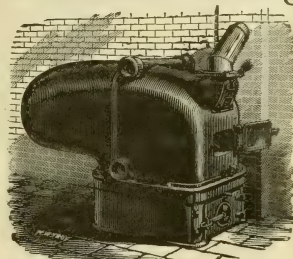
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about my printing you want. I expect to be there, and will be glad to give any desired information.

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HARRISBURG, PA.BE SURE TO SEE the Furman Boilers at the
Boston Convention, August 19, 20, 21 and 22.
HERRENDEEN MFG CO., Geneva, N. Y.FURMAN BOILERS
FOR STEAM OR HOT WATER HEATING.BURNS SOFT OR HARD COAL. 56 STYLES AND SIZES.
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C. STRAUSS & Co., Washington, say: "We use eight of your largest size. They don't burn over half the coal we formerly used in our old boilers."

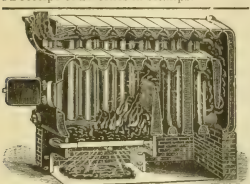
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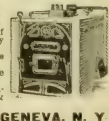
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Superior Hot Water Boilers.

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THE AMERICAN FLORIST

CONVENTION SUPPLEMENT.

Vol. VI.

CHICAGO AND NEW YORK, AUGUST 15, 1890.

Supplement to No. 121

Key to Map.

1. Convention Hall.
2. Tremont House.
3. Music Hall.
4. Adams House.
5. American House.
6. Boston Tavern.
7. Hotel Brunswick.
8. Crawford House.
9. Parker House.
10. Quincy House.
11. Revere House.
12. Sherman House.
13. United States Hotel.
14. Hotel Vendome.
15. Young's Hotel.
16. Bunker Hill Monument.
17. Faneuil Hall.
18. Old South Church.

Boston Notes.

The Germania band will furnish the music.

Frank Becker, J. W. Manning and W. C. Strong will supply the plants for the decoration of Horticultural Hall.

The bowling contest will take place on Tuesday afternoon. The alleys at the Allen gymnasium are very fine, and there will be abundance of room for spectators.

The horticultural exhibition at Music Hall will be free to members on showing their badges.

The silverware for the large number of special premiums will be quite a show in itself.

One of the most interesting events will be the trip on Wednesday afternoon to historic Lexington, and the beautiful grounds of Mrs. F. B. Hayes. There will be a warm welcome from Mr. Comley.

If Mr. J. W. Manning makes one of his characteristic exhibitions of hardy herbaceous flowers there is a great treat and a valuable lesson in store for those who will examine it.

A large group photograph of the members will be taken on the grounds of Mr. H. H. Hunnewell on Thursday at 4 p. m. The picture will be made by Mr. Chas. Storer, of Boston, and a copy of the same will be presented to each member by the Herendeen Mfg. Co., of Geneva, N. Y., who make the Furman steam and hot water boilers.

Two new gladioluses of the Nancienne section, President Carnot and John Laing, have been certificated by the Mass. Hort. Society recently.

The officers of the Association of Cemetery Superintendents and of the Mass. Hort. Society have been invited by the Gardeners' and Florists' Club to participate in the excursion on Friday.

Boston sweet pea growers have reason to be proud of their accomplishments this season. The flowers produced this year have been about as near perfection as possible and enormous quantities have been disposed of.

Mr. Hugh Dickson, of Belfast, Ireland, will be present at the convention. Representatives of other noted trans-Atlantic



MAP OF A PART OF BOSTON.

houses are also expected. Much regret is expressed at the unavoidable absence of Mr. Dimmock, of Summit, N. J., who has been unexpectedly called to London. The boys are brushing up their greenhouses and giving the stores a little touching up in order to make a good im-

pression. Mr. N. F. McCarthy has even gone so far as to give his big yellow cat a fashionable clip. Nick says he would have had the animal shaved with a razor if he could only have held him quiet. As it was the job cost \$1.50 and the man earned his money. W. J. S.

Programme for the Boston Convention.

TUESDAY, AUG. 19, 1890.

FIRST DAY—Opening Session, 10 o'clock A. M.
ADDRESS OF WELCOME, BY THE GOV. OF MASS., AND THE MAYOR OF BOSTON.—
RESPONSE, ROBT. CRAIG, PHILA.—PRESIDENT JORDAN'S ADDRESS—REPORTS OF SECRETARY AND TREASURER—REPORTS OF STANDING COMMITTEES—REPORTS OF SPECIAL COMMITTEES—MISCELLANEOUS BUSINESS—DISCUSSION OF PRESIDENT'S ADDRESS.

FIRST DAY—Evening Session, 7 o'clock.

ESSAY—The growing importance of Easter trade, and how to prepare for it. JAS. DEAN, Bay Ridge, N. Y.

Discussion.

ESSAY—The Value of System in Business. D. B. LONG, Buffalo, N. Y.

Discussion.

QUESTION BOX.

WEDNESDAY, AUG. 20, 1890.

SECOND DAY—Morning Session, 9:30 o'clock.
Selection of place of meeting for 1891.
Nomination of officers for ensuing year.
ESSAY—Hybridization. E. S. CARMAN, River Edge, N. J.

Discussion.

Election of State Vice-Presidents by State Delegations.

SECOND DAY—Evening Session, 7:30 o'clock.
ESSAY—Best Twenty-five Hardy Herbaceous Plants for Florists' Use. J. WOODWARD MANNING, Reading, Mass.

Discussion.

ESSAY—Succulents. E. S. MILLER, Floral Park, N. Y.

Discussion.

Discussion on Landscape Gardening.

This subject proved to be most interesting at the Buffalo meeting, and an opportunity will be given to all who wish to express their opinions on the subject at this time.

QUESTION BOX. (see below.)

The Florists' Hail Association will meet at Horticultural Hall one hour previous to the opening of the Evening Session, Second Day.

THURSDAY, AUG. 21, 1890.

THIRD DAY—Morning Session, 9:30 o'clock.
Election of officers.

ESSAY—The use of Special Fertilizers Under Glass. PROF. S. T. MAYNARD, of Mass. Agri College, Amherst, Mass.

Discussion.

Review of plants of recent introduction.

THIRD DAY—Evening Session, 7:30 o'clock.
Final committee reports.
Miscellaneous business.

QUESTION BOX. (see below.)

FRIDAY, AUG. 22, 1890.

FOURTH DAY.

The fourth day will be devoted to social enjoyment. The Gardeners' and Florists' Club of Boston will tender to the members of the Society of American Florists a trip in Boston harbor and along the Massachusetts coast, to be followed by a banquet at Nantasket Beach. Other hospitalities which have been prepared for the pleasure of the delegates, including a number of invitations to notable private establishments, will be announced at the proper time.

QUESTION BOX.

The following subjects for the Question Box have been already sent in, and together with those placed in the Question Box during the session, will be assigned to gentlemen competent to reply to them. Five minutes will be allowed for each

reply, and they will be replied to at the three evening sessions, and will be grouped as nearly as possible so that subjects of general interest to the trade will be assigned to the first evening; cultural questions to the second evening; and questions relating to mechanical appliances, etc., to the third evening.

SUBJECTS.

1. Berry-bearing Plants for Fall Use?
2. Twenty-five Plants Indispensable to the Extreme South?
3. Acclimation of Southern Plants in the North?
4. Twelve Best House Plants for Window Gardening?
5. How must Liliun Auratum be Handled to make it a Permanent Success in Open-air Culture?
6. Can the Hellebores be Grown to Advantage by the Commercial Florist?
7. Can we Reasonably Expect a Race of Early Chrysanthemums, blooming in September and October, Valuable for America?
8. Best Method of Treating Callas during Summer to have them in bloom for the holidays?
9. Best Method of Forcing Early Hybrids?
10. Twelve Best Hardy Shrubs for Florists' Use?

11. Twenty Best Native Plants suitable for Florists' Use?

12. The use of Foliage in Connection with Cut Flower Work?

13. How to Increase Public Interest in the Society and its Objects?

14. Is the Selling of Flowers, etc. through Commission Men the best possible Plan of Marketing our Produce? (To be answered by a grower, a commission dealer and a retailer respectively.)

15. What can be used to make a Vapor that will Destroy Red Spiders and not injure Vegetation in Greenhouses?

16. Petroleum: Is it Profitable in Greenhouse Heating?

17. What can be said in favor of Overhead Heating?

18. Is Double Thick Glass the best and in the long run the Cheapest?

DON'T FORGET to have your railroad certificate countersigned by Secretary Stewart.

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The best in the market at lowest cash prices. Special discounts on large orders. Write for prices to

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LILIUM HARRISII. First class Bulbs in all grades now ready. Let us have your orders. Look at samples.

ROMAN HYACINTHS. Our first shipment is just ready. Romans are not plenty this season. Order early.

L. CANDIDUM. These we expect by August 25. Fine Bulbs at 20 per cent. below former rates.

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CALLA BULBS. Fine stock, California grown. Ready about September 10.

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PRIMULA AND CINERARIA. Finest strains. Orders booked at Boston will be mailed at once.

PANSY SEED. VAUGHAN'S "INTERNATIONAL" NEW CROP SEED. This you can buy at our exhibition stand at Boston. IT IS UNEQUALED.

ROSES. Get our prices on general forcing stock (4-inch), also Clotilde Soupert, and all the novelties.

PALMS AND FERNS. We have nice young stock of the best kinds. Ask for list and prices.

FLORISTS' SUPPLIES. We are headquarters on everything of this class, and make prices lower than ever.

HOLLY AND GREEN. Book orders with our Agents at the Boston meeting and you WILL GET IT if it grows.

Ask for one of our Illustrated Catalogues and take it home with you.

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BERMUDA EASTER LILY.

HENDERSON'S FLOWER SEEDS

FOR FALL SOWING.

PANSIES OUR GREAT SPECIALTY.

HENDERSON'S NEW MAMMOTH BUTTERFLY PANSIES

An unrivaled strain, flowers of largest size, perfect form and of gorgeous colors and markings.

Price, per $\frac{1}{2}$ oz., \$1.00; per oz., \$6.00.

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This is a magnificent strain with flowers of enormous size. A large proportion of Giant Yellow in the mixture, makes them very effective for vases and florist's spring work.

Price, \$4.00 per oz.

We have made special arrangements direct with collectors for supplying

FRESH PALM SEEDS

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THE TRUE BERMUDA EASTER LILY.

Having thus grown them for years, our experience in their cultivation enables us to send out the finest bulbs even if the bulbs were given to you.

We were the Pioneer Introducers in quantities for Florist's Forcing of this Peerless Forcing Lily.

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At this date (August 15th) we have an immense stock of all the leading forcing varieties; *strong plants* in 3 and 4-inch pots, suitable for *late planting* including in extra fine condition, Mme. Hoste and Duchess of Albany.

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We make a specialty of Ferns, and can furnish in quantity first quality stock of all the leading commercial sorts.

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Convention Notes.

THE HEADQUARTERS of the AMERICAN FLORIST are room 200, Tremont House.

BE SURE to get a certificate from the agent when you buy your ticket to Boston.

THE ANNUAL exhibition of the Mass. Hort. Society will be held in Music Hall, see map.

EXCURSION and banquet at Nantasket Beach with the Boston boys on Friday, the 22nd.

THE COMMITTEE on Nomenclature meets at the Tremont House Monday morning August 18.

A MEETING of members and all others interested in the American National Chrysanthemum Society will be held some afternoon during the convention, notices of which will be posted in the convention hall.

AS WILL be noted a map is especially necessary to strangers visiting Boston. Don't venture out alone without the accompanying one in your pocket or you may not find your way back to headquarters before the limit on your railroad ticket has expired.

THE MAIN part of the trade exhibit is in the hall below that in which the convention will assemble. The builders and other heavy goods will be found at Hunsford Hall, which is one block from the convention hall and is on the ground floor of Music Hall.



IF you would have "good luck" with your forcing stock, try

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Send a list of your wants, stating kinds and quantities, for estimate.

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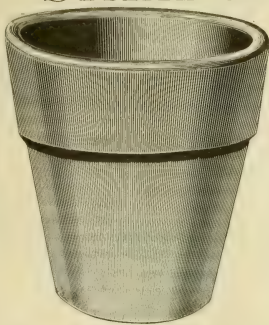
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100 Gleichenia hederacea var., 2-inch. " " " " 3c.
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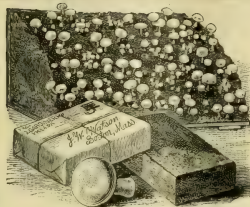
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GARDINER'S GENUINE ENGLISH MILLTRACK MUSHROOM SPAWN.

"Underneath our green-house benches is just the place for Mushrooms. They are not a bulky crop, and a good sale for them, at a good price, is assured for all we can raise, for the supply has never been nearly equal to the demand."

"The proper time to begin is in August, September or October, with successive beds in November and December; this will give us an unbroken supply from the end of October till the end of April."

—W. Falconer, in "American Florist."

MUSHROOM SPAWN, GENUINE ENGLISH MILLTRACK.

John Gardiner & Co. make a specialty of genuine English Milltrack Spawn. Why waste your money on doubtful quality, when you can buy the Genuine English Milltrack at a reasonable price? Our spawn is prepared for us by one of the most celebrated makers in Worcestershire, England, and can be thoroughly relied on to produce a fine crop of the best Mushrooms. Four importations a season. Always fresh. The price commends itself. 50 lbs., \$5.00; 25 lbs., \$2.75; 10 lbs., \$1.20; by express at customer's expense. Sample by mail, post paid, 5 lbs. for \$1.00.

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Our eight page pamphlet, "Mushrooms for the Million," which gives in a concise form, all necessary information for the successful raising of the best Mushrooms, will be enclosed with sample orders, or mailed free for stamp to any one interested.



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These letters and designs are made of the best flowers, wired on wood or metal frames, having holes drilled in them to insert tooth-picks, by which they are fastened to the design. Give them a trial. You will find these goods to be superior to any in the market. PAT'D AUG. 6, 1889.

NOTE.—All infringers or imitators of the above letters and designs will be prosecuted to the fullest extent.

Send for Sample.
2-in. purple... per 100, \$3.00
Postage, 15 cts. per 100.

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A Full Line of Samples at the Convention
Mention American Florist.

**ROTTED PEAT, FIBROUS PEAT,
and Dry or Wet Packing Moss,**
\$1.00 per Barrel.

Green Sphagnum Moss, \$2.00 per bbl.
A discount of 25 per cent. on all orders of five barrels or upwards at one order. Cash with order.

THE BARNEGAT MOSS & PEAT CO.,
BARNEGAT NEW JERSEY.
Mention American Florist.

WANTED TO BUY

400 to 500 feet of Second hand 4 inch
Greenhouse Pipes, Hittings preferred. Must be sound. Apply to
PEARSON & McCARTY,
FLORISTS,
Memphis, Tenn.

WANTED.

A man who is capable of growing first-class roses, carnations, tropical stuff and smilax. One who is not afraid of work and who has had some experience with steam heating. An American or German preferred. Address all letters to

Mrs. Ella Grant Campbell,
275 Jennings Ave., CLEVELAND, O.
Or, I can be found at Boston by enquiring of the Sec'y of the S. A. F. Wm. J. Stewart.

7000 APPLE GERANIUM SEED
Crop 1890,
at 35 cents per 100. Also 150 varieties
hardy plants—HERBACEOUS—both
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SPARTANBURG, S. C.

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When you are at the CONVENTION
At Boston

that our Representative, J. C. MONINGER, will exhibit our
line of goods, pertaining to

GREENHOUSE BUILDING,

it will pay you to investigate, especially in the way of having
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FANCY.



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EVERGREEN CUT FERNS.

Especially for Florists' Use.

\$1.50 PER 1000 FERNS

Discount on Large Orders.

Special attention paid to supplying the Wholesale Trade. Write for prices.

BOUQUET GREEN for Holiday Trade, \$2.00 per bbl. (30 lbs.); or \$6.00 per 100 lbs.

SPHAGNUM MOSS A Specialty. Long clean fibre, dry or green, \$1.00 per bbl. or 6 bbls. for \$5.00. Write for terms on large lots.

CHRISTMAS TREES American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 2 to 20 feet high. Special attention to supplying car load lots. Write for price list and terms.

CITY STAND DURING THE HOLIDAYS.
47th ST. and LEXINGTON AVE., NEW YORK.

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ENTRIES in the bowling contest have been made by Philadelphia, New York, New Jersey, Chicago, Buffalo and Boston. The alleys on which the games will be played are 65 feet long. Nine inch balls will be used, either finger or solid according to roller's choice. Three games will be played, the time for the same being the afternoon of Tuesday, the 19th inst. The prize is a \$50 cup offered by the Gardeners' and Florists' Club of Boston, the cup to become the permanent property of the winning team. In addition to the above trophy Messrs. F. W. Foster & Co., manufacturers of steam and hot water heating apparatus, will offer through the Gardeners' and Florists' Club of Boston, three prizes for the best individual records made in the above contest, to be known as the "Foster Prizes," and consisting of gold and silver badges of special design, as follows: 1st prize, a gold badge, value \$35; 2nd prize, a silver badge, \$10; 3d prize, a silver badge, \$5, all to become the property of the winners.

I HAVE THE DISPOSAL OF THE FOLLOWING

SPECIMEN PLANTS

which the owner wishes to sell to make room for smaller stock:

- 1 Acanthophaenix cicutia, - 15 ft. high.
- 1 Areca Baueri, - - - 10 "
- 1 Dicksonia antarctica, - 8 "
- 2 " " - - - 15 "
- 2 Cycas revoluta, large plants.
- 1 Orange tree, - - - 14 "
- 3 Latania borbonica, - - 10 "
- 2 Ficus indica, - - - 15 "
- 2 Cocos plumosa, - - - 21 "
- 1 Ficus macrophylla, - - 19 "
- 2 Seaforthia elegans, 13 and 16 "
- 9 Alsophila australis, 2 to 10 "
- 7 Ficus elastica, - - 10 to 15 "

AND OTHERS.

For prices and information regarding the plants, apply to

WM. J. STEWART,
67 Bromfield St., BOSTON, MASS.

ZIRNGIEBEL NEW GIANT PANSIES.

HUGE JEWELS OF VELVET AND GOLD.—Boston
Traveller, May 10, 1896.

Have opened a new era in Pansies. The magnificent specimens that we have exhibited and sent to Boston, New York, Philadelphia, Detroit, Hartford, etc., have shown to what perfection of color and size the Pansy of to-day can attain when well grown. The display we made on May 10th in Boston has probably never been equaled even in Europe, not a few of the flowers measuring four inches across, and colors rivaling the best orchids.

OUR GIANT MARKET
is truly the variety for the million, being of immense size and bright colors. We have greatly improved, getting more variety of colors, especially in the lighter shades. 1,500 seeds.

THE GIANT FANCY
we find it impossible to improve on. They are certainly the ne plus ultra in Pansies now. They require high cultivation to develop well. 600 seeds.
Trade packages of either variety at \$1.00 each.
Full directions how to grow pansies with each pkg.

Densy Zirngiebel, Needham, Mass.



Phoenix reclinata . . . \$6, \$7.50, \$9, \$12, \$15, \$18, \$24 and \$30 per dozen.
" Rapicala, FOUNTAIN PALM, \$1.00, \$1.50, \$2.50 and \$3.50 each.
Cycas revoluta, SAGO PALM, all established plants with perfect leaves, \$15, \$20, \$25, \$35 and \$50 per dozen. \$10 and upwards in pairs.
Ficus elastica, \$5, \$10, \$12, \$15, \$18 & \$24 per doz.
Pandanus utilis seedlings, thumb pots, \$5 per 100
" \$3, \$5, \$9, \$12, \$15, \$18 & \$24 per doz.
Pandanus Veitchii, \$12, \$18, \$24 and \$30 per doz.
Dracana terminalis, . . . \$10, \$15 and \$20 per 100
" \$25, \$35, \$45 and \$50 per doz.
" Stricta grande, . . . \$18 and \$24 per doz.
" Fragrans, \$20, \$25 and \$35 per 100.
" and \$12 per dozen.

SEND FOR SPECIAL TRADE PRICE LIST.

All Delegates to the Convention are cordially invited to visit our Nurseries.
SIEBRECHT & WADLEY, NEW ROCHELLE, N. Y.

ORCHIDS! ORCHIDS! ORCHIDS!

Can be had in any Quantity and in Great Variety from

F. Sander & Co.,
ORCHID IMPORTERS AND GROWERS, SUMMIT, N. J.

A large importation just arrived of the popular Winter Flowering Cattleya Trianae in excellent condition.

Full particulars and prices furnished on application.

**The Finest Stock of
LOW-BUDDED HARDY HYBRID ROSES AND
Extra Strong Clematis, etc., etc.,**

**IS OFFERED BY
THE BOSKOOP, HOLLAND, NURSERY ASSOCIATION.**

Send for New Catalogue also of **HOLLAND BULBS, ROMAN HYACINTHS, LILIU HARRISII;** and

500,000 TRUE BERLIN PIPS LILY OF THE VALLEY.
Address **C. H. JOOSTEN,**
Importer of Bulbs and Plants, **3 COENTIES SLIP, NEW YORK CITY.**

A.T. Merrick. Send 10 Cents for
Artistic ENGRAVER for FLORISTS
711 CHICAGO OPERA HOUSE.
CHICAGO.
ROSES, etc.

ROSE HILL NURSERIES SPECIAL OFFER. PALMS.

Areca Catechue, beautiful new Palm, \$18 & \$30 per doz.
lutescens, . . . \$10, \$25, \$35, \$45 and \$50 per 100
" \$15, \$18, \$24 and \$30 per doz.
Verschaffeltii, \$9, \$12, \$15, \$18, \$20 and \$24 per doz.
Kentias seedlings in thumb pots, Belmoriaana & Forsteriana, \$20, \$25 & \$50 per 100. \$12, \$15, \$18 & \$24 per doz.
Latania, Seedlings in thumb pots, 50 000 . . . \$8 per 100 extra strong, \$10 per 100
" strong plants, \$30, \$45 and \$55 per 100. \$9, \$12, \$15, \$18, \$20 and \$24 per dozen.
Ptychosperma Alexandrae \$6, \$9, \$15, \$18 and \$24 per doz.
Seaforthia Elegans, . . . \$9, \$12, \$15, \$18 and \$24 per doz.

FERNS.

Adiantum cuneatum, \$8, \$10, \$15 and \$20 per 100
" Rhodophyllum, the pink leaf Maiden-hair, . . . \$3 and \$5 per doz.
Fieria tremula, . . . \$8, \$10 and \$20 per 100
Assorted Ferns in best varieties, per 100 \$5; good selection.

ORCHIDS.

Assorted, cheap, . . . \$7, \$9, \$10 and \$15 per dozen
Very good, . . . \$18, \$24 and \$30 per dozen

Samples of above enumerated plants will be on Exhibition in Convention Hall, Boston, Mass.

CONVENTION.

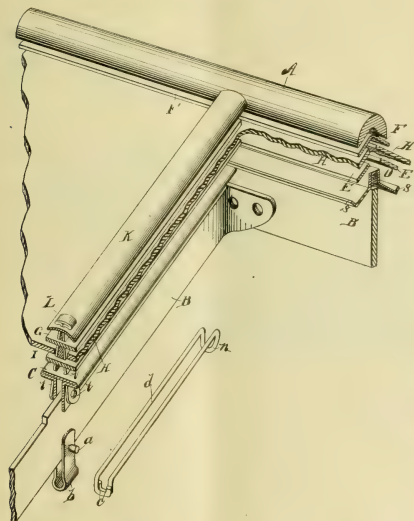
SPECIAL NOTICE!

**Northern, Southern, Eastern,
and Western, also Canadian
Visitors to the above are**

**CORDIALLY INVITED TO VISIT THE
UNITED STATES NURSERIES,
Short Hills, N. J.**

JAMES R. PITCHER.

W. ALBERT MANDA.



Something New.

The accompanying cut represents a Glass
House Frame, constructed of

STEEL AND GALVANIZED IRON.

This new invention will be placed on exhi-
bition at

**MUSIC HALL, BOSTON,
DURING
CONVENTION WEEK.**

In placing this new invention before the
public, I do so well knowing that it will
have many objections to overcome. But I
feel confident that when its merits and ad-
vantages over wood houses are thoroughly
understood, those objections will be largely
removed.

A more detailed description will appear
in these columns later on.

JAMES D. SCOVEL, 1420 GRAND RIVER AVE.,
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A. T. CEFREY'S

**Patent Improved
Florists'**



A. T. Cefrey

**Immortelle Letter and
Pin Fastener.**

CEFREY LETTER CO.,
GENTLEMEN:—I find the new machine-made
Immortelle Letters manufactured by you very
saleable and in many respects superior to any-
thing of the kind we have ever handled. Their
uniformity of shape, size and color, the convenient
form in which they are put up, and the excellent
device for fastening them to the work, are among
the most commendable points in your letters.
Please double my last order and deliver as soon as
possible. Yours truly, W. J. STEWART.

CEFREY LETTER CO., 13 Green St., Boston.
DEAR SIR:—Please ship me five thousand letters
as soon as possible. They are the best and most
practical letters in the market. The pin fasteners
are a long way ahead of the old fashioned way of
wiring. Yours truly, N. F. MCCARTHY.

CEFREY LETTER CO., Boston, Mass.
DEAR SIR:—Send at once ten thousand small let-
ters and five hundred large (two inch.)
GALVIN BROS., Boston.

We wish to announce to all florists that we have removed to much larger quarters, **No. 13 GREEN STREET, BOSTON.**

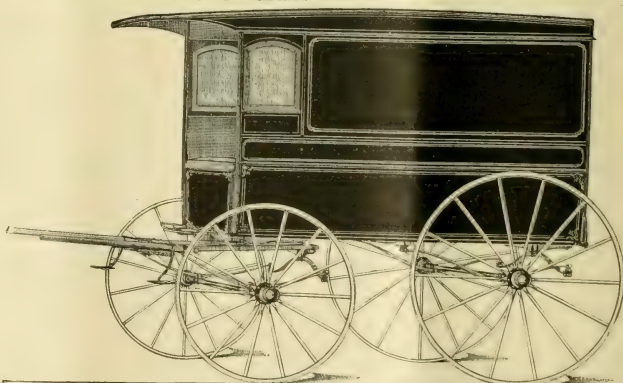
We make our letters by machinery; they are not only more perfect in size, shape and color, but are the best and cheapest in the market. Our 2-inch letters are only two and a half cents, and the 1½-inch letters are only two cents apiece. Your customers will have no o hers. Be up with the times! Send us your orders and we will ship you a supply for this winter. **They are the best in the market.**

THE CEFREY LETTER CO., 13 Green Street, BOSTON, MASS.

—* THE NEW *—

HOFFMAN DELIVERY WAGON

(PATENT PENDING.)



Model and Photographs of this Wagon will
be on exhibition at the
TREMONT HOUSE, BOSTON,
during the Florists' Convention, August 19th
to 22nd.

Write for Descriptive Circulars and Prices to

THE JACOB HOFFMAN WAGON CO.,
41 Michigan Street, CLEVELAND, O.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VI.

CHICAGO AND NEW YORK, SEPTEMBER 1, 1890.

No. 122.

THE AMERICAN FLORIST

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AMERICAN FLORIST COMPANY.

54 La Salle Street, CHICAGO.

SOCIETY OF AMERICAN FLORISTS.

M. H. NORTON, Boston, Mass., president; JOHN C. BARNES, Toronto, Ont., vice-president; JOHN STEWART, W. Belmont, St. Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August 29th.

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Press of convention matter has necessitated the addition of four extra pages this issue, making it a 28-page number.

The Florists' Hall Association has recently paid J. J. Schumacher, of Sioux Falls, South Dakota, \$150, and S. D. Bradford, of Colorado Springs, \$33.45, for loss by hail.

As will be noted, our report of the Boston convention which appears in this issue consists mainly of a record of happenings of interest during the week. But we shall treat fully of the many essays and discussions in future issues.

We FEEL some little pride in being able to present such excellent engravings of the convention in session and views at the Mass. Hort. Society exhibition so soon after these events. The center of our full page illustration gives a general view of the exhibition. The mantel in the lower left hand corner is the one arranged by David Allan and which was awarded first prize; the one in the upper right hand corner was arranged by W. E. Doyle and received second prize. The other views show selected groups of decorative plants.

The Boston Convention.

The sixth annual convention of the Society of American Florists convened in Horticultural Hall at 10:40 Tuesday morning, August 19, with about 600 members present.

The session was opened by addresses of welcome from Lieutenant-Governor Haile for the State, and Mayor Hart for the city. The hall was crowded to overflowing, and the bright decorations of the Grand Army encampment, with the strains of the Germania Band, presented, indeed, a scene of welcome. On the platform with the Lieutenant-Governor and the Mayor were J. M. Jordan, President of the Society; A. P. Calder, President of the Gardeners' and Florists' Club of Boston; M. H. Norton, Vice-President, and several of the State Vice-Presidents and prominent members. Mr. A. P. Calder took the chair and introduced Lieutenant-Governor Haile, who, in a brief speech, welcomed the visitors. He said:

Members of the Society of American Florists. Ladies and Gentlemen:—It is my pleasant duty to extend to you an official welcome on this the first session of your convention. Your calling is one destined to accomplish a high achievement in civilization. As the pictures which adorn the walls of our houses act as educators in rearing to a marked degree, so the flowers in beautifying our homes and their surroundings are powerful forces in the evolution of a higher civilization. Your society is doing a noble work, the trend of which is the uplifting of humanity. How different are the purposes of this society, to which the State and city extend a welcome this morning to those of the great assembly of last week. Last week the quarter century milestone of the war was set up, and Massachusetts came forward to honor the soldier who fought for the Union. Today we welcome the florist who beautifies the land when the white-robed messenger of peace has full sway. I thank you for the compliment of inviting me here, and Massachusetts extends the most cordial welcome to every individual member of the society, and expresses her interest in the objects of the society.

After a selection by the Germania orchestra Mr. Calder introduced Mayor Hart, who also extended a cordial welcome on behalf of the city, to which Mr. Robert Craig responded as follows:

Mr. President—Ladies and Gentlemen: The members of the Society of American Florists have already been made to feel what it is to be the recipients of a New England welcome; they have thus early had occasion to realize that, with you, that term is not meaningless, but one full of significance. Our whole country has been thrilled by the demonstration of the extraordinary capabilities of Boston hospitality, as evidenced only last week, in the kind and generous treatment of the

multitudes of the veterans of the Grand Army of the Republic, every one of whom left your beautiful city with feelings of gratitude toward it which will endure as long as life shall last.

I want to assure the distinguished representatives of this State and city and the people of Boston, through them, that the members of this society appreciate in a like degree the evidences of kindly feeling with which they have been received on every hand; and I can only regret my inability to clothe in language sufficiently adequate for the occasion my response to the cordial greetings that have been so eloquently voiced by the Chief Executive of this commonwealth and by the Mayor of this city.

We are proud to be in Boston for many reasons—because it is an historic city, one full of places of peculiar interest to us and surrounded by memories that are cherished by all of us—because of its achievements, because of its institutions of learning, because of its magnificent libraries, because of the noted men and women it has produced. Some of the greatest poets, philosophers and statesmen that this country has known lived and labored in Boston or in its vicinity. We are proud of being here for another reason: because Boston is the centre—the acknowledged centre—of horticulture in this country. It is the home of the greatest, the most successful and one of the oldest horticultural societies in the land; a society that, ever since its organization, has numbered among its members some of the best citizens of Boston. In fact, horticulture has been recognized in Boston as it has not been in any other city in the Union. From early in the history of Boston the Commons of the city were set apart to be adorned by the florists' art, for the use of the people for all time to come; and from that day to our own horticulture has been given here that recognition to which its merits entitle it.

We anticipate the enjoyment we shall have in viewing the magnificent exhibition in Music Hall, which has been gotten up by the expenditure of so much well-directed labor—the sight of the exhibition alone is worth coming a thousand miles to see—and when we think of the marvelous collections of rare and valuable orchids and other plants we shall have opportunity to see, and when we remember that in the vicinity of Boston are undoubtedly the finest examples of landscape art in America, and probably not excelled by any in the world, we cannot sufficiently express our pleasurable anticipations.

Ladies and gentlemen, I will not detain you longer, but will conclude by repeating, again and again from the bottom of my heart our thanks for the greetings extended to us.

Both the welcome and response were received with long-continued applause.

Then followed President Jordan's address, from which we give extracts below.

President Jordan's Address.

Precedent has established the rule in this association that its president should deliver an annual address, on such subjects as he may deem of interest and the good of the society may demand.

The object of this society is defined in Article II. of the Constitution to be as follows: "The aim of this society is to lift up and carry forward all that tends to advance the interest of its members;" therefore we are at liberty to present any subject connected with art, literature or science, entering into an analysis of any of the economic questions of the day.

Much is expected of this society in its organized efforts, not only to instruct its members in their daily avocations, but to educate the masses in horticulture, by widening and deepening an interest in our profession, by increasing our membership, active and honorary, until we embrace all the leading men of the country who are interested in the various callings of horticulture; all men engaged in scientific research tending to advance the profession; the formation of kindred associations; encouraging exhibitions of plants and flowers, by bringing into closer relations the retail dealer with the grower and wholesale dealer; unless the retailer dealer can make a success of his business the grower can not hope to do so.

An eminent writer on economics realized this statement: "The profits realized in nearly all branches of business to-day are acquired from what was considered twenty years ago *waste*," and but a small percentage of waste has yet been saved, therefore it becomes us closely to examine our work and see wherein we can prevent or diminish this waste; waste of time, waste of money, waste of energy, waste of hours that should be spent in relaxation, amusements and recreation.

A large proportion of the wealthy men of this country are anxious to know how they can best benefit humanity with their accumulated millions; how they can best build a monument to their names more enduring than granite; how they can best prevent waste and reduce the friction in business, by lubricating the wheels of evolution that the fittest may survive.

Large fortunes have been bequeathed to religious institutions, but who can foretell the teachings of any one religious sect one hundred years hence? Libraries have been established in various cities, and schools have been endowed to carry out some wishes of their donors, and while we all believe that much good is accomplished in evolving a higher civilization for those who can avail themselves of the benefit of these institutions, yet we must acknowledge that those who are thus benefited are very few, compared with the great mass of people that frequent our parks and public grounds to take object lessons; where young and old, rich and poor, learned and illiterate meet on one common level to drink in nature's best gifts to man.

Indoubtedly these sentiments inspired Mr. Henry Shaw (who died in St. Louis, August 25, 1889) to bequeath to the public his immense fortune for all time to come, for the purpose of instructing the people in the ever-increasing knowledge of horticulture. Let me read you a few extracts of his will: After mentioning the trustees, he gives to the public a Botanical Garden, which shall be forever kept up and maintained for the cultivation

and propagation of plants, flowers, fruits, trees and other productions of the vegetable kingdom, a museum and library devoted to the service of botany, horticulture and allied subjects.

A school has already been established, under the direction of Professor William Telcense (who is connected with the Washington University), where young men are trained in the practical work of horticulture. They are paid for their work, besides furnished with lodgings and tuition free; they will be taught surveying, book-keeping and all necessary branches of knowledge to make them useful in any branch of horticulture.

Mr. Shaw did not forget the social side of life, and bequeathed one thousand dollars each year for a banquet to men eminent as teachers of science, literature and art; also four hundred dollars each year for a like banquet for gardeners and florists; five hundred dollars each year for a floral exhibition; giving the trustees unlimited power to spend large sums of money in extending the parks and pleasure grounds.

The subject of a higher education has been mentioned in our former conventions, and has elicited some sharp criticisms, and in presenting it again, will quote from Professor W. O. Atwood's report from the Agricultural Department at Washington, D. C., transmitted June 15, 1889:

"Within recent times, farmers and men of science interested in farming, have seen the advantages of using the resources of science to improve the practice of agriculture, and have established agricultural experiment stations.

"The objects of these stations are to experiment and to teach, to make a regular business of discovery, to promote agriculture, by scientific investigation and experiment, to diffuse as well as increase the knowledge which improves farm practice and elevates farm life. Modern science reveals the operations of nature in their truth and beauty, and lifts us by their contemplations out of ourselves to higher things. It finds as much that is wonderful in the growth of a blade of grass as in the motion of the planets, as much of inspiration in the process by which a clod of earth gives up its fertility as in the forces that keep the stars in their places in the universe."

The United States Department of Agriculture, situated in Washington, D. C., is supplied with reports from the different experiment stations (of which there are some forty odd at present); these reports are condensed, and a bulletin issued free to any applicant; any one engaged in horticultural pursuits can gain much useful knowledge by the reading of these bulletins. Each member of this society should make the acquaintance of the director of the nearest experiment station, furnish him with new plants or trees for testing, giving the director a report of such facts as you may have learned by your own experiments, and thus by this interchange of knowledge will we advance to that higher plane where we can reason from cause to effect.

There should be established some measure of qualification of young men entering into the employment of florists to learn the business, and with proper influence we could have graduated at many of our institutions of learning young men suitable for apprentices in our profession.

The death list of our members for the past year is unusually long. Some whose names have been shining lights for many

years have left us. In due time resolutions from the committees will be received and recorded. May the lessons of the past inspire us to fill up the full measure of our manhood, by endeavoring to do more for others than we expect individually to receive.

Recommendations for our future work will be made by the executive committee.

During the sessions of this convention may our deliberations be honest, earnest and decisive; each expressing his own individual opinions, either in speaking or voting on any subject that may be presented.

Hoping for a continuance of the prosperity of this society in the advancing of our standard of excellence, so that we may ever remain in the foremost rank in the pursuit of horticulture, the foregoing is respectfully submitted for your consideration.

Secretary Stewart reported that 775 members had paid their dues for 1889, and that during the year fourteen members had been reported by death.

Treasurer, H. H. Remond, reports during 1889 of \$1,957.97, and disbursements for the same term of \$1,231.90, leaving a balance of \$726.07 in the treasury on January 1, last. On July 1st, last, there was a balance of \$554.

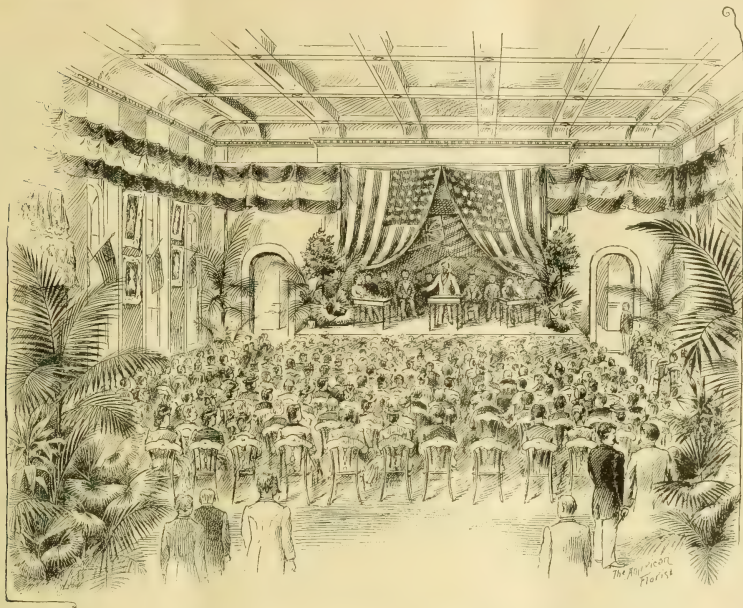
The Committee on Nomenclature submitted the following report through Chairman J. D. Reynolds:

Mr. President: Your committee have made every effort in their power to collect all available data for the revision of plant nomenclature. Not content with such cases of misnaming as had come under their own personal notice twelve hundred circular letters of inquiry were sent out with addressed postal cards for reply. Only three of these came back from the dead letter office, having failed to reach their destination. One hundred and twenty-eight answers were received. Sixty-three of these were to the effect that the writers knew of no cases of misnaming, and sixty-five gave lists of from one to a dozen or more supposed synonyms.

To the remaining 1069 circulars no reply whatever has been received.

Your committee met at the Tremont House, in this city, August 18, and devoted a long morning session to carefully examining and sifting the sixty-five lists sent in. The larger lists were mainly of cases where there has been confusion and conflict of authority as to the right botanical name. Of course these were generic or specific names, and, while it is in the highest degree desirable that the conflict should be settled and a correct scientific botanical nomenclature be arrived at, yet your committee feel that they have neither the authority nor adequate facilities, and they take it that such work is not at present expected of them, hence the only work undertaken at this meeting has been an attempt at lessening the existing confusion in varietal names and especially the examination of cases when it is alleged that new names have been sent out under new names with fraudulent intent to sell them at an enhanced price.

It must be said here that such cases are far less numerous than has been commonly asserted, and of the few instances that have been brought to the notice of the committee not a single one has been accompanied by any sort of legal evidence that the accusations were true. In most cases names were withheld, and where names were given these were simply the unsupported assertion of the writer, sometimes even accompanied with the



THE SOCIETY OF AMERICAN FLORISTS IN CONVENTION AT BOSTON.

request that the communication be considered confidential! While your committee have every desire to expose and punish fraud, and will fearlessly make the attempt if furnished with proper evidence, yet it can hardly be expected of them that they will undertake the work of "showing up the villains" by making public charges which they would be unable successfully to maintain in defending a suit for libel.

Of the cases of supposed misnaming submitted by far the larger number—fully seventy-five per cent.—are simply cases of mistaken identity, arising from substitution, either intentional or accidental, by the person the plants were bought of; or else the mixing of labels, which is well known to be a most fruitful source of error.

Your committee makes no claim to being infallible, and, in all probability, when their list of supposed synonyms comes to be printed and circulated, it will be found that their judgment in some cases has been erroneous and that further revision is necessary. This is not a work that can be done at once or which can ever be declared perfect, but it is hoped and believed that perfection can be nearer approached year by year, and that what has been so far accomplished will not be considered without value.

There are, of course, a number of instances where the committee are in doubt as to whether two names are or are not synonyms. These cases can only be proved

by testing, growing the plants side by side under the same conditions for a sufficient time to make exhaustive comparison. The chairman of your committee entered into correspondence with the horticultural directors of the agricultural experiment stations, and a number of them have signified a willingness to undertake such work for us and make official report of the results. It is, however, the nearly unanimous opinion of the committee that this proffered assistance should not be accepted, since it is doubtful if the results would be accepted as final and conclusive, and it would be better that the work of testing should wait till it can be done by practical men within the society.

The six sub-committees have made painstaking reports, giving all known cases of misnaming in their different classes, which reports are herewith submitted.

Toronto, Ontario, was selected as the place of meeting for 1891 and officers for the ensuing year elected as follows: President, M. H. Norton, Boston; Vice-President, John Chambers, Toronto; Secretary, Wm. J. Stewart, Boston; Treasurer, M. A. Hunt, Terre Haute, Ind.

The many essays and discussions on same will be treated in subsequent issues.

The Florists' Hail Association.

The Florists' Hail Association met in

Horticultural Hall at 6:30 p. m. August 20. The report of the secretary shows the amount of glass insured to be 2,132,118 feet. The reserve fund amounts to \$1,233, and the balance on hand of assessment fund \$553. The following directors were elected for the ensuing year: B. F. Dorrance, Julius Roehrs, Edwin Lonsdale, J. D. Cismody, James Horan, J. M. Jordan and J. C. Vaughan. At the meeting of directors held subsequently the following officers were re-elected: J. M. Jordan, president, J. G. Esler, secretary, J. C. Vaughan, treasurer. Although the fund for payment of losses was still above the legal limit it was deemed wise in view of the large amount of glass now insured, to make an assessment on all members who joined prior to April 1 last. This will give a strong cash fund to meet any losses. Many new applications were reported. Full reports will be printed in a later issue.

The Entertainments

A CARRIAGE RIDE.

On Tuesday afternoon the ladies in attendance at the convention were treated to a carriage ride through the city and suburbs by the Gardeners' and Florists' Club of Boston which was very greatly enjoyed. The party filled a tally-ho and thirty-four carriages. Their route took them through Commonwealth avenue

and the Back Bay Park and out to Franklin Park, where refreshments were served at the Overlook. Thence the drive was to Cambridge, where the pottery of A. H. Hews & Co. was visited. Here the party was welcomed by Mr. Hews and shown over his establishment, a light lunch being provided also and a souvenir napkin-holder vase was presented to each individual.

AT LEXINGTON.

Wednesday afternoon a special train carried the S. A. F. to historic Lexington in response to an invitation from Mrs. F. B. Hayes to visit her beautiful estate. Arriving at Lexington they repaired to the town hall and listened to an address of welcome by Rev. A. B. Staples. Mr. Staples also enumerated and explained the interesting historical events for which the town is noted, in a pleasing manner. The company then proceeded to the house and viewed the historic boulder and the famous John Hancock house. Arriving at the home of Mrs. Hayes, after a ramble over the beautiful grounds and an opportunity had been given to thoroughly admire the magnificent trees and other objects of interest, a collation was served under a large tent in the yard. Alderman Wilson welcomed the visitors in behalf of Mrs. Hayes in a few well chosen words. After the collation had been served the visitors assembled on the slope in front of the house and were photographed. About 6 o'clock the company took the train for Boston, pronouncing the occasion a very pleasant one.

AT WELLESLEY.

Thursday afternoon the members of the society were taken by special train to Wellesley, where they were met by Mr. H. H. Hunnewell at his magnificent estate, certainly the most beautiful and interesting in America. Several hours were spent in admiring the beautiful landscape, the elaborate bedding, the rare plants and flowers to be seen in wonderful profusion, the grapevines and fruit forcing houses, the curious garden of clipped trees, the conservatories, the views over Waban Lake and the many other gems of natural scenery. It was an educational afternoon. In response to a bugle call the visitors ascended on the lawn in front of the residence where they were photographed in a group, and afterward an elegant lunch was served in a tent which had been erected on the grounds for the purpose. Mr. Hunnewell is a royal host and he had an able lieutenant in Mr. Harris his head gardener. We shall have more to say about this beautiful place in an early issue.

BOWLERS' BANQUET.

Last Thursday evening the New York bowling team gave a supper at the Thorndyke to properly celebrate their success in carrying off first prize in the bowling match. It was an informal affair and those present enjoyed themselves most thoroughly. All the clubs which participated in the match were toasted individually and the Florists' Clubs of America collectively. The huge silver cup won by the New Yorkers was filled with champagne and each one present drank from it to the continued prosperity of the Boston Club, and at the same time made a speech, sang a song or told a story. The modest Bostonians were fairly overcome by the numerous eulogistic speeches and kindly wishes for their future welfare. Mr. Craig recited a "poem" which proved that success in any contest awaits those who aim high and put forth their best endeavor. A New York gentleman favored the com-

pany with a song entitled "Riding on the elevated railroad," which was an alarming expose of "high life" in the metropolis, and which evoked much laughter and applause. Mr. Lonsdale gave a revised version of the "Good old Duke of York," and Mr. Farson related in tuneful verse the exploits of the "Bold McIntyres." All those who could not sing said something wise or witty. Friday morning had got a fair start before the company separated.

EXCURSION AND BANQUET.

Friday was devoted entirely to pleasure. As guests of the Gardeners and Florists' Club the society enjoyed a delightful sail in Boston harbor on the steamer New York, followed by a banquet at Nantasket Beach. The time set for the start was 9 o'clock, but large bodies move slowly, and it was nearer the hour of 10 before the jolly crowd, numbering nearly 1,000, had snugly ensconced themselves aboard the boat.

The sail afforded many especially those who came from the west, their first sight of old Neptune's domain, and not a few of them paid him tribute. Heading for Nahant and then shaping her course for Minot's ledge light, the vessel gave ample opportunity to note the many points of interest in the harbor. At 2:30 p. m. the wharf at Pemberton was reached, where a special train was in readiness to convey the party to Nantasket.

On their arrival at the beach Landlord Verrelli of the Hotel Nantasket, catered to the wants of the inner man in the large skating rink. Here for over an hour the voyagers rested, being regaled with the delicacies of the season, enlivened by strains of sweet music from Landall's band, which had accompanied the party on the steamer, and wrought up to a pitch of enthusiasm at the close of the dinner by the speech-making which took place.

The post-prandials were begun with brief remarks from retiring President Jordan, who proposed three cheers for the entertainers, the Boston gardeners and florists.

They were given with energy. Then President A. P. Calder, of the Gardeners' and Florists' Club of Boston, acting as master of ceremonies, said that although the Society of American Florists had been cordially received by state and city officials, the Gardeners' and Florists' Club had proposed to outdo city and state by making them thrice welcome.

"When we heard at the convention in Buffalo," said Mr. Calder, "that Boston was to have the next convention, the wellspring of our desire overflowed, and our thought was, 'How can we best contribute to the happiness and enjoyment of the members and advance the interests of the society?' We have done what we could, and now we have but one more wish to express, which is that your visit here may long be remembered and remain fragrant, fresh and bright among your best recollections in the annals of the association."

Mr. Calder then called on President Jordan, who expressed his pleasure at the success of the convention, complimented the Boston reception committee on their untiring devotion to their guests, and said the past week, and especially this day, had been one of the happiest occasions of his life.

President-elect M. H. Norton was the next speaker. He joined with the president of the Boston club he said in giving the visitors a welcome. He believed no city could entertain them more fittingly,

and that no body of men could appreciate such cordiality more thoroughly than the florists. "If you are satisfied," he concluded, "I am sure we are all satisfied too!"

Edwin Lonsdale was next introduced, and presented to Secretary Stewart a purse of gold containing \$400, in token of the esteem in which he is held by his fellow-members. Mr. Stewart was overcome. In response he said: "I do not understand this matter at all, but if there is one thing more than another that could make me happy it is to see you all here with me. My heart is eloquent, but I can not express what it contains. Whatever I can do to show the florists of our country our feeling of love towards them I want to do. Yours is one of the noblest of callings, and you are never satisfied unless you are making somebody happy. God bless you all."

Mr. Calder then announced that the ladies attending the convention had held a meeting on board the boat, and had passed a vote of thanks to Mrs. F. B. Hayes, of Lexington, Mr. Hunnewell, of Wellesley, Mr. and Mrs. Hews, of Cambridge, Mr. J. Tailby, of Wellesley, and the ladies of the Boston convention, for their uniform courtesies during the convention. Mr. John Thorpe, of Pearl River, N. Y., was then introduced as the "father of the society." He spoke of the former conventions of the society, and said that the one in Boston "beat them all." He expressed his heartfelt thanks to the Boston Florists' Club. Mr. Patrick Norton, of Dorchester, Mass., was the next speaker. He said: "Last week the Grand Army were here in their warlike splendor, but this week records a peaceful and a like auspicious gathering. We hope to meet next year in Toronto, Ont., in the same strength, but also in a peaceful way." Mr. F. G. Foster, of Toronto, Ont., then said: "Although we can not compete with Boston in such generous and princely hospitality as we have enjoyed, Toronto will give you a hearty welcome and will give you a chance to enjoy yourselves in your own way. The visit will do us good and will do the Society of American Florists good in general. It will enlighten their minds to the capabilities of Canada and will smooth the rough ground supposed to exist on that imaginary line between Canada and the United States. It will increase the membership of the society, as the people of Canada will not only see the good fellowship existing among the members of the society, but will be quick to recognize the financial benefits resulting from membership in such an organization." Mr. W. R. Smith, of the Botanical Gardens of Washington, D. C., then spoke. He referred to the generous hospitality of Boston, and said that such a collection of plants as had been exhibited in their honor could not be equaled in any city in the world. Mr. J. D. Reynolds, of Chicago, referred to the coming World's Fair in that city, and urged co-operation on the part of the members to the end that the horticultural exhibition might be one in which all Americans could take just pride.

After the exercises in the rink a ball game won by a Boston picked nine in a contest with all comers by the score of 8 to 4 was played.

Those who did not care to witness the ball game strolled about the beach and whiled away the hours pleasantly until 7 p. m., when the return trip was made, the party reaching Lewis wharf shortly before 9 o'clock, thus bringing to a close a most enjoyable day.

Notes.

VOTES OF THANKS were tendered to the Gardeners and Florists' Club of Boston, Mr. H. H. Hunnewell, Mrs. F. B. Hayes, the Mass. Hort. Society, the press of Boston, and all others who had so generously assisted in entertaining the society and contributed toward the success of the convention.

THE DELEGATION from Chicago and the northwest came very near being pitched into eternity on the trip down through a broken axle on a forward car while running at a high rate of speed. Fortunately the accident resulted in merely a few hours delay in reaching the Hub.

MESSRS. John Thorpe and E. G. Hill were appointed delegates to represent the S. A. F. at the meeting of horticultural societies in Chicago, called to consider matters in connection with the World's Columbian Exposition in 1893.

BY A RESOLUTION offered by Mr. John Thorpe, Mr. Jas. D. Reynolds was in-dorsed by the society for the position of director of the horticultural department of the World's Columbian Exposition to be held in Chicago in 1893.

WHEN President-elect Norton and Secretary-re-elect Stewart appeared on the stage together they were greeted with tumultuous applause. Neither of them are great talkers, but both are good workers.

THE PLEASURES of the occasion were somewhat marred for President Jordan by the receipt of a telegram stating that a portion of his greenhouses had been destroyed by fire during his absence from home.

THE SHORT VIEW of the Nantasket Beach attracted the attention of the members from the interior who were so anxious for closer inspection that they could not wait for the speeches.

EULOGIES were pronounced upon the lives of John and Peter Henderson, Henry Bennett and other members who had been removed by death since the last meeting of the society.

MR. JAMES HENRY LAING, of John Laing & Sons, Forest Hill, England, attended the Boston meeting. Mr. Hugh Dickson, of Alex. Dickson & Son, Belfast, was also present.

PITCHER & MANDA's show of cypripediums at the trade exhibition was remarkably fine. Mr. Manda was present and assisted materially in all the festivities.

THE special prizes, consisting of silver vases, cups and other similar articles, occupied a glass case in the center of Music Hall and made a glittering show.

AN AMENDMENT to the by-laws increasing the secretary's salary from \$500 to \$750 per annum was adopted by a unanimous vote.

THE HOSPITALITY of the Boston friends was simply magnificent, and the management of the various excursions was most excellent.

MR. D. B. LONG's essay on system in business was liberally illustrated by large sheets showing his method of book-keeping.

MR. J. W. MANNING, of Reading, Mass., made a beautiful display of rare conifers in the halls of the Tremont House.

MR. JAS. DEAN, of Bay Ridge, N. Y., was nominated for the presidency, but declined in favor of Mr. Norton.

MR. E. S. CARMAN's essay on cross-fertilization and hybridization will be given in full in an early issue.

THE DINING-ROOM at the Tremont House was handsomely decorated with palms and similar decorative plants.

MR. W. K. HARRIS expressed the belief that double thick glass is the best and in the end the cheapest.

THE NEW YORK and New Jersey florists banqueted those who traveled with them to Boston by boat.

THE invitation to meet next year in Toronto was extended by Mr. J. H. Dunlop of that city.

THE DISCUSSION upon marketing cut flowers brought forth nothing especially new.

THE "only" Dan Farson, of the Quaker City, was there. "Nuff sed."

A PORTRAIT of President M. H. Norton will appear in next issue.

"JIM THE PEMMAN'S" score was the glorious sum of 234.

THE WEATHER was perfect during the entire week.

WE SHALL visit our Canadian friends next year.

Annual Exhibition Mass. Hort. Society.

The Boston Music Hall is but a few steps from Horticultural Hall, and in it the Mass. Hort. Society held its annual fall exhibition of plants and flowers. In Boston we expect to see something unusually superior in the way of fine plants, because of the many large greenhouse gardens in and immediately around it, and the general interest taken in fine gardening. But the present exhibition has been conceded by both the Boston people and strangers to have eclipsed in excellence any previous effort. Every plant shown was a good plant, and there was a complete absence of ill-grown or trashy stock. The palms were splendid, and so, too, were the cycads. The orchids, considering the time of year, were a bank of loveliness, and well merited the admiration of the many visitors who continually crowded in front of them. The crotons were especially fine, not so much on account of their large size as of their fullness, abundant, large and splendidly colored foliage. The dracaenas were not large; their merit rather consisted in their broad, massive leaves from the base up.

Large as the music hall is, there was not nearly room enough in it to display the plants to good advantage, but this disadvantage was more than counterbalanced by its nearness to the hall in which the convention was held.

Besides the prize-winning plants there were many other superb specimens. Frank Becker, of Cambridge, and W. E. Doyle, of Boston, contributed a large assortment of fine palms, dracaenas, laurels and other plants used in furnishing. The Harvard Botanic Garden sent a group of large ferns, mosses and cactuses, and Mrs. F. B. Hayes, of Lexington, a fine specimen of *Dasylirion acrostichum*. A large plant of the perforated leaved *Monstera* (*Philodendron*) *deliciosa*, with large, boat-like flowers and long, cone-like young fruits from J. H. White, elicited much interest.

Mr. Denys Zirngiebel, of Needham, contributed the very large group of China asters in bloom in pots that decorated the upper stage, and they were very fine.

One end of the hall was partitioned off into four compartments in each of which one table and one mantel decoration was arranged, and these rooms were by far the most frequented and apparently appreciated part of the whole exhibition. These rooms were always crowded with visitors. Sixty and forty dollars were

the first and second premiums offered for table decorations, and these had to be kept fresh and in good condition for four days. Galvin Bros., J. Newman & Sons, Twombly & Son and W. E. Doyle, all of Tremont street, had each a table. Galvin Brothers' table had a center-piece of pink roses—Mermets and Duchess of Albany, relieved at each end by dishes of Grace Wilder carnations all openly and tastefully arranged, and made up around with maidenhair fern. There were scrolls of Blanche Ferry sweet peas, and the favors were pink roses. *Asparagus plumosus* was draped about the lamps. Awarded second prize.

Newman & Sons' table had as a center-piece a vase built of double sunflowers with a bunch of Papa Gontier roses at top, and the base was trimmed with adiantum ferns. In the end baskets a dish of fruit was set in the middle, and built about with pink roses and ferns, and the center of the table for four feet wide and a good part of its length was lined with mirror glass on which were strewn pink pond lilies and their leaves and some fern fronds. The favors were of Papa Gontier roses.

Twombly & Son's table had a large Adiantum Farleyense as a center-piece set on mirror glass with pink pond lilies strewn on it, and a tracery of pink roses foliage and fern fronds was run all around the middle of the table. The favors were of Perle roses.

In W. E. Doyle's table the center-piece was a large flowing but airy specimen of *Phoenix rupicola* with small plants of *Cocos Weddelliana* and *Pandanus Veitchii*. This table was uncommonly wide and gave an opportunity for a larger use of plants and flowers than was the case with the others. Around the center plants and in an oblong square along the table was arranged a solid belt of speciosum lilies. And the favors too were of these lilies. Awarded first prize.

Two prizes, of \$75 and \$50 respectively, were offered by the Society of American Florists for a mantel decoration, and these elicited four competitors, namely, Galvin Brothers, J. Gormley & Son, Tremont street, David Allan, Mount Auburn, and W. E. Doyle.

Galvin Brothers filled the base with Veitch's pandanus, ferns and asparagus, in the fireplace was a *Cissus discolor*, double sunflowers and pandanus furnished the mantel shelf, with a *Croton Chelsoni* in the center, and over the mirror palms, dracaenas and pandanus were arranged.

John Gormley & Son occupied the same room in which was J. Newman & Son's table decoration. The base of their mantel decoration was filled with green dracaenas, screw pines and ferns; the mantel shelf was banked with Perle and Mermets roses, interspersed with ferns and a few croton leaves and draped with ferns and asparagus; two sunflower-made vases at the ends were filled with red and pink roses and a spray of *lapageria*, and there was a flower-made time piece in the middle. At the top was a center plant of variegated cypripedium with an adiantum on each side. Caladiums on pedestals occupied each end and the gas lamps were draped with smilax.

David Allan's mantel decoration was in the same room with Twombly & Son's table decoration, and it was a marvel of loveliness, richness and elegance. The materials used in its construction were of the finest kind, and they were arranged with such delicate effect that not a pot or vestige of one was seen, and everything appeared rich and nothing heavy. Up

each side of the mantel crotons, *Cocos Weddelliana* and variegated alocasias were arranged, and in the fireplace umbels of the white agapanthus were stuck among *Adiantum trapeziforme*; the mantel shelf was banked with *Fareyense* ferns trimmed with orchid blossoms and draped with long sprays of red *Lapagerias*; depending over the mirror sprays of white *Lapagerias* hung from a border of ferns and orchids. The decoration was surmounted by a Croton *Queen Victoria*, relieved on either side by a plant of *Pandanus Veitchii*. Splendid pitchers of *Masterei* and other *nerpentes* trimmed the lamps, and yards of plumose *asparagus* was freely used. The orchids used were *Odontoglossum vexillarium*, *O. Alexandre*, *O. Sanderiana*, *Grammatophyllum Ellisii*, *Cypripedium Curtisii*, *C. Lawrenceanum*, *C. Harrisianum*, *C. Stonei* and *C. Crossianum*. This mantel was awarded first prize.

In front of and in the fireplace in W. E. Doyle's mantel were arranged *dieffenbachias*, violet-leaved alocasias, green and variegated small *pandanus*, *Cocos Weddelliana*, a *Cordyline indivisa* and *Calladium pictum*. The mantel shelf was banked with double flowered sunflowers and white speciosum lilies on a bed of green. Sunflowers and white lilies were also arranged about the mirror, with small plants of *pandanus*, *cocos* and *dieffenbachia* and an alocasia as the centerpiece. A fine specimen of speciosum lily set on a pedestal hidden among small palms and ferns was set on each side of the mantel. Received second prize.

The pond lilies were one of the loveliest and most appreciated features of the exhibition. Chipman Brothers, Sandwich, Mass., sent a tubful of the rose colored variety of *Nymphaea odorata* right from headquarters. Professor Fairman, Rogers, Newport, R. I., sent *N. Devonianum*, *N. dentatum*, *N. cerulea* and *N. candidissimum*, also the Japanese *Nelumbium album* and a form of it with red striped margins. Mr. Benj. Grey, of Malden, who makes a specialty of aquatics, sent *Nymphaea stellata*, *N. Zanibarenis* in variety, the rose-colored *N. odorata*, *N. Devonianum* and *N. dentata*. Of *Pistia stratiotes* he showed immense heads. And Mr. E. D. Sturtevant, of Borden-town, N. J., who is said to have the largest variety of ornamental aquatic plants in the world, brought scores upon scores of his splendid Egyptian lotus blossoms.

Mr. L. W. Goodell, of Dwight, Mass., filled a large tank with beautiful lilies, also some rarities. He had *Nymphaea Marliacea chromatella*, the new yellow one, and which is supposed to be a natural hybrid between *N. flava* and *N. candidissima*. It is day-blooming, slightly fragrant, hardy, free growing and very free blooming, continuing to blossom from early summer till late fall. A pretty little white lily was *N. albo-pygmaea*, said to be a natural hybrid between these two species, and also hardy and copious. Among other lilies he had *N. alba*, *N. candidissima*, *N. scutifolia*, *N. Marliacea*, *N. dentata*, different varieties of *N. odorata* and of *N. Zanibarenis*. Among the last named was a very deep colored sort from N. Z. rose, which he has named *purpurea*. A leaf of *Victoria regia* was spread in the middle of the basin, and *Azolla Caroliniana* floated about like duckweed and *Limnobia Humboldtii*, water chestnuts (*Trapa*) and *Eichhornia crassipes* were at home in the tank. The new and rare *Eichhornia crerulea* was prettily in bloom; it is bluer than *E. crassipes*, and the plant creeps about in

matted fashion in shallow water in about like manner as do *verbenas* on dry land. *Myriophyllum proserpinoides* hung in lace-like fringe over the edges of the tank. *Limnanthemum Indicum* attracted attention because of its vigorous growth, and its pretty little white flowers whose surfaces are beautifully fringed or bearded. *Sagittaria Japonica* fl. pl. was in full flower, its large, extremely double, pure white flowers are very attractive and good to tell, the plant is hardy and easy to grow. *Limncharis Plumieri* was worthy of notice. It has very large foliage and a bunch of flower buds terminating a stout scape, but only one flower at a time is open. The zebra-striped rush, the variegated sweet flag and other plants went to help the display, and leaning over the tanks were huge specimens of the Egyptian papyrus plant.



SPECIAL PRIZE OFFERED BY THE AMERICAN FLORIST, AND AWARDED TO J. W. MANNING.

From Mr. Hunnewell and the Harvard Botanic Garden likewise came tubs of pond lilies in bloom.

Mr. Tricker from Staten Island, brought flowers and leaves of *Nymphaea "Mexicana"*. The flowers are yellow and somewhat fragrant and bear a close resemblance to those of *N. flava*; indeed, judging from the flowers, leaves, style of growth and other characteristics, such an expert as Mr. Sturtevant considers it identical with this species. Its very stout flower stems, however, are a little puzzling.

Mr. F. L. Ames, of North Easton, Mass., took first premium for six orchids with beautiful specimens of the following: *Cattleya Eldorado* having a dozen flowers, *C. Gaskelliana* with ten blooms, *Laelia callistoglossa*; bearing three spikes of splendid flowers, *Odontoglossum grande* with seven spikes, *Cypripedium Morganianum* with two spikes of three flowers each and a handsome specimen of *C. Veitchii*. Mr. J. L. Gardner, Brookline, was second with *Laelia crispata*, *Dendrobium Denarii*, *Vanda suavis*, *Miltonia spectabilis*, *Oncidium volax* and *Calogyne Massangeana*.

For the best collection of orchids in bloom Mr. Ames secured the leading prize. In this lot were the yellow flowering *Oncidium Kramerii*, the striking *Odontoglossum vexillarium superbum*, *Cypripedium macropterum*, *Bulbophyllum umbellatum*, *Odontoglossum albo-sanguineum*, a unique plant bearing one spike with thirteen decidedly marked blossoms on it, *Cypripedium centaurium superbum*, *C. lo-grande*, *Promenaea stapheloides*, a specimen of *Erides* affine with a drooping spike twenty inches long, and many other choice sorts.

Mr. Ames also got first premium for the best three orchids, these included *Cypripedium Curtisii* with five very large dark flowers, *Cattleya Warscewiczii* imperialis with two spikes bearing five immense blossoms, and *Odontoglossum vexillarium* with ten arching spikes of lovely glistening flowers. With *Laelia elegans Littleiana* Mr. Ames took first premium for the best single plant of orchid in bloom. It was a beauty, nearly four feet high and had a spike of eight brilliant blossoms. For the best single orchid plant to be judged by the following points, namely, condition, symmetry and size, 3 points, beauty, quality and quantity of flowers, 4 points, value and rarity of specimen, 3 points, Mr. Ames was awarded the premium for *Laelia crispata superba* bearing five spikes carrying forty-five flowers.

For a pair of palms in tubs not less than 24 inches in diameter, Mr. H. H. Hunnewell secured the leading honor with grand specimens of *Phenacophorum Seckellianum* and *Cocos Bonnetii*, and Mr. J. H. White, Brookline, was second with *Kentia Belmoreana* and *Areca lutescens*. For a pair of palms in tubs of 20 inches or less in diameter Mr. White got first honor with a splendid *ritchardia* and *latania*. Mr. White also got first premium for a pair of palms in 16-inch tubs, these included an *Areca Bausei* and a handsome *seafarthing*. And Mr. Ames got first and Mr. White second prize for a pair of palms in 12-inch pots.

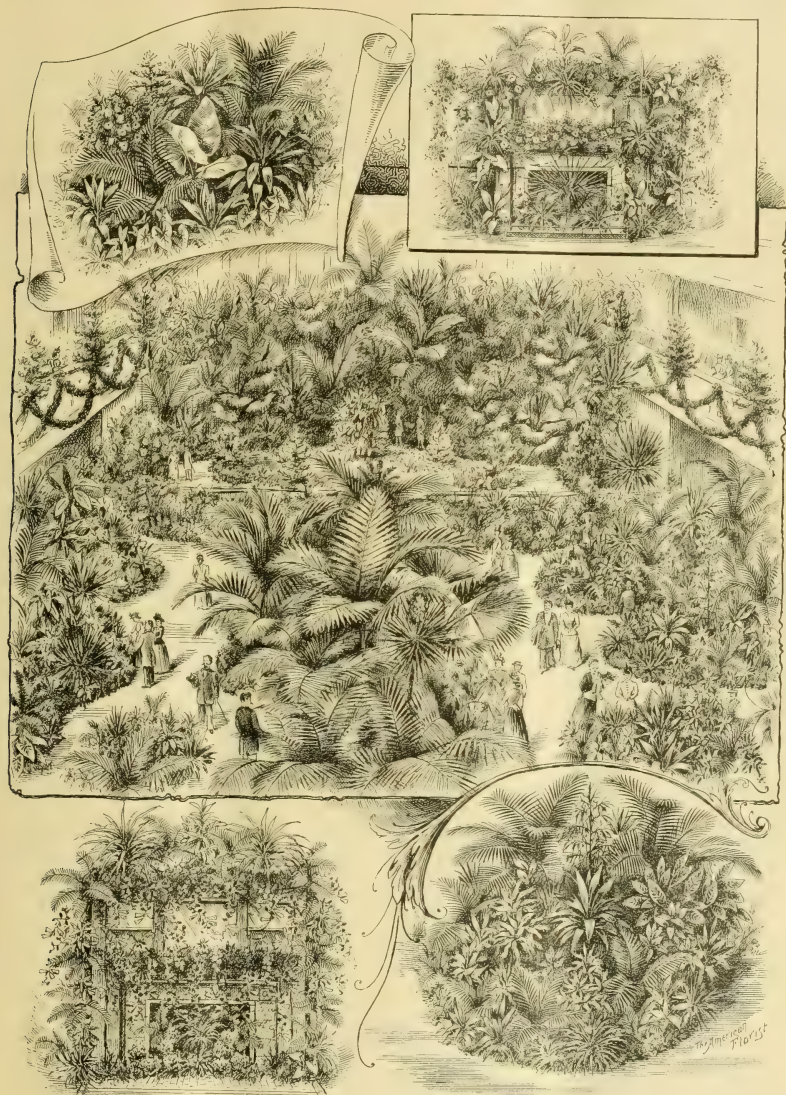
Mr. Hunnewell got the first premium for the best six stove and greenhouse plants with *Phyllotomium Lindenii*, *Euphorbia villosa*, *Cissus discolor*, *Ficus Parcellae*, *Davallia Fijensis* and *Croton Williamsii*. Mr. J. L. Gardner, Brookline, and Mr. N. P. Kidder got the second and third prizes, respectively. Conspicuous among their exhibits were *Alocasia Sedeni*, *Maranta Lindenii*, *Cycas revoluta* and *Queen Victoria* and other crotons.

Mr. White got first premium for the best single specimen flowering plant which was a massive *Allamanda Hendersonii* in full bloom and trained close down on a trellis. Mr. J. L. Gardner got second prize for a specimen of *Agapanthus umbellatus* with 28 flower spikes.

In the ornamental foliaged plants class Mr. N. P. Kidder took first premium with *Maranta rosea-picta*, *Alocasia Thibautii*, the variegated *Ficus elastica*, *Philumium variegatum*, *Pandanus Veitchii* and a handsome *dieffenbachia*. Mr. White who got second honors had well grown and variegated plants of *Ficus elastica*, *cosproma*, *curya*, *alocasia*, *dieffenbachia* and *phormium*.

For the finest single specimen of variegated plant Mr. Ames was first with *Dracaena indivisa variegata*, Mr. Kidder was second with *Maranta illustris*, and Mr. G. A. Nickerson third.

In the class for six ferns exclusive of *Adiantum*, Mr. Kidder got first premium for *Nephrolepis davallioides furcata*, *N. pluma*, *N. rufescens*, *Microlepia hirta cristata*, *Davallia Fijensis* and *D. Mooreana*; Mr. Ames got second and Dr. C. G. Weld third. Among their collections were superb plants of *Nephrolepis cordifolia*, *Didymochlena umulata*, *Nephrolepis exaltata*, *N. rufescens trippinatifida*. For six *Adiantum* ferns Mr. Kidder was first and Dr. Weld second. Their collections included *Adiantum gracillimum*, *A. cuneatum*, *A. concinnum*, *A. Flemingii* and *A. tetrasporium*. Tree ferns were not represented by the tall thick stemmed *dicksonias* or *alsophias*, but by the dwarf *Lomaria Gibba*, fine plants with 6 feet wide heads of fronds.



SKETCHES AT THE EXHIBITION OF THE MASS. HORT. SOCIETY HELD AT BOSTON DURING THE CONVENTION OF THE S. A. F.

For selaginellas Mr. Kidder was first and Dr. Weld second. Prominent among the varieties were *S. plumosa*, *henioides*, *Mertensii* and *S. Wildenovii*. Fisher Brothers, of Montvale, Mass., sent a sample lot of lovely little plants of *Adiantum Farleyense*, and the Botanic Garden, Cambridge, sent a varied lot of large plants for decorative purposes.

For six drooping Mr. Hunnewell got first premium for magnificen, *Youngii*, *Bella superba*, *indivisa variegata*, *Robinsoniana* and *Shepherdii*. Dr. Weld got second for *Goldcana*, *Sedeni*, *Wellesleyana*, *Mooreana*, Mrs. H. H. Hunnewell and *Youngii*.

Mr. Kidder secured the premium for crotons in 12-inch pots; he had Earl of Derby, *Evsianium*, *Baron J. de Rothschild*, *Queen Victoria*, *nobile* and *Andraenum*. For crotons in 6-inch pots Dr. Weld was first, Mr. J. G. Gardner second, and Mr. G. A. Nickerson third. Among the best colored of their plants were variegatum, *revolutum*, *Queen Victoria*, *maculatum*, *Baron Rothschild*.

The finest croton in the exhibition was a specimen of *Queen Victoria* contributed by Mr. Geo. A. Nickerson, Dedham.

Mr. Ames got first premium for pitcher plants. They were splendidly grown in suspended baskets, and the pitchers were unusually large and deep colored; the kinds were *Nepenthes Burkei*, *N. Curtisii*, and *N. Mastersiana*. The United States Nurseries staged a lot of cut leaves of *Nepenthes*, as well as an interesting set of *sarracenias* and a nice pan of *Dionaea muscipula*.

The display of cut flowers was disappointing, neither annuals nor perennials averaging as good as one would hope to find in Boston. The dry weather was said to have been the cause of this.

The prizes offered by the AMERICAN FLORIST for the best collection of cut flowers of hardy perennials were secured by J. W. Manning, first, and Temple & Beard, second. These collections included *Rudbeckia purpurea* and several yellow *Rudbeckias*, *Liatris*, *monarda*, blue and cardinal *lobelias*, summer hyacinth, *Gallardia*, *phlox*, tiger, specimen and auratum lilies, *Helenium autumnale*, *Clematis Davidiana*, double and single multiflorous sunflowers, white day lily, red and white yarrow, butterfly weed, *Heuchera sanguinea*, *Plumbago Larpende*, *Senecio pulcher*, *Boltonia latispicata*, *clematis coccinea*, *Veronica subsessilis*, blue and cardinal delphiniums, blue and white campanulas, blue scabios, *Amorally Halii*, *Aconitum uncinatum*, *Eranthis Fraseri*, *Euphorbia corollata*, white musk mallow, *Stokesia corymbosa* and some white *chrysanthemums*.

Mrs. E. M. Gill got first prize for a collection of cut blooms of annuals with a miscellaneous assortment of unnamed common kinds of no great merit. *Verbenas* and some other annuals were so poor that the committee would not award them any prize. The recent dry weather was against great excellence in sweet peas, still some very pretty ones, *Blanche Perry* and *Weld* were shown. Dr. C. G. Weld got the Drear first prize for *gloxinias*. He had about 100 bottles with three blooms and a spray of maiden hair fern in each. Mr. J. W. Clark was first and Dr. Weld second for *gladioluses*, which were very pretty so far as they went, but rather lacking in variety.

Mr. W. Winter, of Mansfield, showed a collection of *dahlias* and one of *tuberous begonias*, the flowers in both cases being small. Apart from the bank of plants of *China asters* shown by D. Zirngiebel, there was nothing striking in this year. *Zinnias*

were ill-represented, and Drummond *phloxes* were not astonishing, but it was pleasant to find *salpiglossus* in favor. E. Sheppard & Son, Lowell, had a meritorious bank of cut flowers, the delphiniums and perennial *phloxes* among them being particularly good. From the Arnold Arboretum came a group of flowers of hardy heaths and Osbeck's *sumach*.

Both J. W. Manning and Temple & Beard had collections of sprays of foliage of hardy trees and shrubs. They placed particular stress upon variegated foliage, like *red-color beech*, cut-leaved foliage, like *Japan maples*, &c. Temple & Beard, W. C. Strong and J. W. Manning each furnished an assortment of evergreen coniferous trees in pots and tubs, and which were arranged outside the doors and about the hallways. Most of the plants had, evidently, been lifted from the open ground and potted for the occasion. They consisted mainly of *retinosporas*, *yews*, *spruces*, *firs*, *pinus*, *junipers* and the like.

The Trade Exhibit.

This valuable feature of the annual conventions of the S. A. F. shows material improvement each year and the exhibits this year were unusually full and complete. All the recent improvements in and additions to the rapidly lengthening list of articles necessary to the trade were to be found in one of the two halls. The growing importance of the trade is well shown by the great variety of material now used by the florist and this is brought to us with added force when they are all gathered together in an exhibit of this kind.

Following is a complete list of the exhibits:

Cefrey Florist Letter Co., Boston—Immortelle letters, inscriptions and designs and wheat sheaves with inscriptions in immortal letters.

Welch Bros., Boston—General line of florists' supplies and box for shipping cut flowers. The latter is made in several sizes and holds a number of metal bottled trays.

Ernst Kaufmann, Philadelphia—Wheat sheaves, metallic wreaths and a general line of florists' supplies.

August Rolker & Sons, New York—Wreaths of metallic flowers.

L. B. Brague, Hinsdale, Mass.—Lycopodium, cut hardy ferns, sphagnum and Christmas trees.

Thos. F. McCarthy, Boston—Florists' wire designs.

Dan'l B. Long, Buffalo, N. Y.—Photographs of floral arrangements.

J. Horace McFarland, Harrisburg, Pa.—Specimens of printing for florists.

United States Nurseries, Short Hills, N. J.—A very large and handsome display of orchids and decorative plants including a splendid collection of blooming *cyripediums*.

H. S. Miller & Co., Newark, N. J.—Animal bone fertilizers especially adapted for florists' use.

John Gardiner & Co., Philadelphia—Mushroom spawn.

Bowker Fertilizer Co., Boston—Plant food.

N. E. McCarthy & Co., Boston—General line of florists' supplies.

Hartford & Nichols, Boston—Lycopodium, cut ferns, moss and Christmas trees.

F. E. McAllister, New York—Bulbs and florists' supplies.

C. J. Kogge, West Hoboken, N. J.—House preserver consisting of a strip of duck about an inch wide saturated with rubber. It is wound around weak spots in

the hose and can be applied in a moment by any one.

W. C. Krick, Brooklyn, N. Y.—Immortelle letters, inscriptions, etc.

Parker & Wood, Boston—Bulbs, seeds, tools and general florists' supplies. A collection of cut blooms of sweet peas also shown by them was excellent. A folding wire plant stand which they had on exhibition received much favorable comment. It folds quite flat in a very ingenious way and promises to be very convenient.

H. Bayersdorfer & Co., Philadelphia—Baskets, wheat sheaves, metal wreaths and a very full line of general florists' supplies.

M. A. Bennett, Boston—Whale oil soap.

J. C. Vaughan, Chicago—Seeds, bulbs, tools and florists' supplies. Also plants of the new polyantha rose *Clotilde Souper*.

Ed. Jansen, New York—A fine display of novelties in baskets.

W. P. Simmons & Co., Geneva, O.—Trusses of 23 varieties of geraniums.

Aug. Jahn, New Bedford, Mass.—Gloxinias.

F. Becker, Cambridge, Mass.—Palms and like decorative plants.

C. Thurston, Paterson, N. J.—Specimen plants of a new begonia in the way of metallica.

H. E. Chitty, Paterson, N. J.—Blossoms of the new white carnation *Lizzie McGowan*.

Charles D. Ball, Holmesburgh, Philadelphia—An excellent display of palms, ferns and like decorative plants of the trade sizes of most in demand.

W. K. Harris, Philadelphia—Iron plant stand. The same that was illustrated in the FLORIST some time since.

H. A. Dreer, Philadelphia—Forcing bulbs and a large display of palms, ferns and like decorative plants of trade sizes. Also cut flowers of *gloxinias*, double fringed *petunias* and *cannas*.

Joseph Breck & Sons, Boston—Forcing bulbs, tools and implements. Also Smith's Hot Bed Mat, which is made of heavy water proof paper. It will probably prove very useful.

F. R. Pierson, Tarrytown, N. Y.—Bulbs of *Lilium Harrisii* and *freesias*. The display of *Harrisii* was very fine, some of the bulbs being of immense size. He also had photographs of houses and fields of bulbs in bloom and a fascinated stem of a lily which had borne 193 flowers.

R. & J. Farquhar & Co., Boston—Seeds, bulbs, tools, mushroom spawn, etc. Also the Xponset waterproof paper flower pot.

J. A. Penman, New York—The Dictionary of Gardening and Book of Ferns.

Willdin Pottery Co., Philadelphia—Flower pots in all sizes, including one with a new style of bottom which provides for ample drainage.

E. A. Ormsby, Melrose, Mass.—Ventilating apparatus.

Barlett & Dow, Lowell, Mass.—The Elliott Wheel Soak Hoe.

G. E. Adams & Co., Glens Falls, N. Y.—Pot washing machine.

A. T. Stearns Lumber Co., Boston—Cypress slash bars, gutters, etc.

Benj. Chase, Jr., Derry, N. H.—Plant stakes and labels.

E. Hippard, Youngstown, O.—Ventilating apparatus.

Quaker City Machine Works, Richmond, Ind.—The Evans' Challenge Ventilating Apparatus.

Richardson & Boynton, Chicago and New York—The Perfect Hot Water Heater.

D. E. Howatt, Poughkeepsie, N. Y.—The Acme Water Heater.

Gurney Hot Water Heater Co., Boston—The Gurney Hot Water Heater.

National Hot Water Heater Co., Boston and Chicago—The Spence Heater, Pierce, Butler & Pierce, Syracuse, N. Y.—The Florida Hot Water Heater.
—Hitchings & Co., New York—Hot water boilers and section of greenhouse fitted with the Hitchings ventilating apparatus.
F. W. Foster & Co., Boston—Heating apparatus.

Herendeen Mfg. Co., Geneva, N. Y.—The Furman boilers.

Waterbury Rubber Co., New York—Steel armored hose.

Jacob Hoffman Wagon Co., Cleveland, O.—Delivery wagon for florists.

Smith & Smith, Kenton, O.—Mailing and express boxes for plants.

Jas. R. Wotherspoon, Philadelphia—Watering pots and fumigators.

Chas. Fottler, Dorchester, Mass.—The Boston Rose Spray Hose nozzle.

John L. Diez & Co., Chicago—Sash bars, gutters, ventilators, etc.

Benj. Hammond, Fishkill-on-the-Hudson, N. Y.—A full line of his well known insecticides.

A. H. Hewes & Co., North Cambridge, Mass.—Flower pots, ornamental plant jars and vases.

Lockland Lumber Co., Lockland, O.—Cypress sash bars.

Edwin Lonsdale, Chestnut Hill, Philadelphia—Palms of trade sizes.

John Burton, Chestnut Hill, Philadelphia—Palms of trade sizes.

Siebrecht & Wadley, New Rochelle, N. Y.—Palms, ferns and like decorative plants.

Craig & Bro., Philadelphia—Palms, ferns and like decorative plants.

Wm. C. Strong, Brighton, Mass.—Conifers.

J. W. Manning, Reading, Mass.—Conifers.

Awards at the Trade Exhibition.

The Society of American Florists made the following awards at the trade exhibition:

First class certificates—Pitcher & Manda, for specimen cypripediums and anthuriums; Ed. Jansen, for baskets and wheat sheaves; H. Bayersdorfer & Co., for display of florists' supplies; Henry A. Dreer, for display of French cannas, glaxias and petunias.

Honorable mention—R. & J. Farquhar & Co., seeds and horticultural goods; Joseph Breck & Sons, general garden supplies; Smith & Smith, mailing and cut flower boxes; F. E. McAllister, collection of bulbs; Charles J. Kogge, house tender; Parker & Wood, garden implements; Craig & Bro., general collection of palms, etc.; Edwin Lonsdale, general collection of palms, etc.; J. C. Vaughan, collection of bulbs; H. E. Chitty, new carnation; T. F. McCarthy, wire designs; Siebrecht & Wadley, general collection of palms, etc.; Parker & Wood, Lilium Harrisii bulbs; W. C. Krick, hand made immortal letters; R. & J. Farquhar & Co., Lilium bulbs; Parker & Wood, folding plant stand; D. B. Long, floral photographs; Bartlett & Dow, the Elliott wheel hoe; F. R. Pierson, bulbs; F. E. McAllister, florists' supplies; E. Kaufman, florists' supplies; John Burton, collection of palms, etc.; Charles Fottler, hose nozzle; Jacob Hoffman Wagon Company, delivery wagon; Frank Becker, collection palms; James R. Wotherspoon, watering pots and fumigators; Charles D. Ball, palms, etc.; Cefrey Immortelle Letter Company, patent florists' letters; Henry A. Dreer, palms, etc.; Henry A. Dreer, bulbs.

The Bowling Match.

Standing room was at a premium at the bowling alleys of the Allen Gymnasium on Tuesday afternoon of the convention. It was a jovial, good natured crowd, and there was a great deal of pleasant badinage. Certain members of the society who are usually long on dignity were discovered occupying points of vantage and attired in smiles of eager anticipation.

The boys who set the pins had evidently prepared to do quick work, but on some of the alleys their task was evidently not quite as laborious as had been anticipated. Some of the clubs had been unable to bring their bowlers with them and had to make up teams from those members who happened to be present.

The New York club took the cup offered by the G. and F. Club of Boston, with a score of 976. The first Foster prize, a gold medal for best individual score made in the first game went to Robert Craig, of Philadelphia, who had a score of 191. The second Foster prize, a silver badge, went to E. J. Mepsted, of Buffalo, on a score of 175. No less than four were tied for third Foster prize, a silver badge, each having a score of 172, but on playing off the tie with three balls it was taken by Wm. Robinson, of the Boston club. The games were played on the six alleys, on the first string the three lowest to drop out, on the second string the lowest to drop out, the remaining two to play off. Following are the full scores:

NEW YORKS.

Theodore Roehrs	168	158	161
J. A. Pennan	136	169	234
Alexander Burns	139	159	147
W. S. Allen	142	131	128
C. H. Allen	165	165	128
Julius Roehrs	172	144	176

Club totals	912	913	976
Average	152	152	164

BOSTONS.

M. H. Norton	145	135	158
T. Cox	165	173	166
W. Edgar	128	172	168
J. Rought	142	163	95
W. Robinson	172	145	120
D. Allan	127	155	167

Club totals	879	943	904
Average	146	157	150

NEW JERSEYS.

J. N. May	153	158	Bowled out
I. Fosterman	154	160	
W. A. Manda	151	133	
W. Henshaw	152	134	
P. McDonald	138	121	
Joseph Manda	172	149	

Club totals	900	855	
Average	150	142	

BUFFALOS.

W. Scott	175	Bowled out
E. J. Mepsted	152	
H. Kelstock	135	
W. J. Palmer	121	
F. J. Cowell	116	
Alex Scott	109	

Club totals	802	
Average	133	

PHILADELPHIAS.

R. Lonsdale	172	Bowled out
John Burton	131	
R. Craig	101	
W. K. Harris	86	
F. W. Young	76	
J. Westcott	127	

Club totals	756	
Average	126	

CHICAGOS.

G. L. Grant	149	Bowled out
W. Vilets	103	
F. J. King	109	
A. Adams	118	
J. T. Anthony	93	
J. C. Vaughan	67	

Club totals	639	
Average	106	

Mr. Taylor's brace, administered to the New York club just before the final string-

gle is undoubtedly what pulled them through. The Boston club braced too early.

The janitor at the alleys said it was the "hottest" bowling match he ever saw.

After the heavy weights had concluded their games, three special prizes, the first a silver fruit dish offered by the Gardeners' and Florists' Club of Boston and the second and third medals offered by F. W. Foster & Co., of Boston, were competed for by those who had not bowled in any of the teams.

The first prize was taken by Ed Jansen, of New York, with a score of 171, the second by Wm. Martin, of Boston, with a score of 157, and the third went to W. W. Coles, of Lansdowne, Pa., with a score of 147.

The Poison Hog-Meat Plant.

(*Aristolochia grandiflora*.) At the convention at Boston, Mr. E. D. Sturtevant, of Bordentown, N. J., showed me photographs of flowers and flower buds of this most wonderful plant, taken from a specimen now in bloom in his greenhouses at Bordentown. He had it under the name of *A. pellicum*, an appellation often applied to this species on account of the similarity in shape of the unopened flower buds to the body of a pelican at rest.

Mr. Sturtevant's flowers of it are unusually fine and larger than those we are told about in botanical books. When fully open, the broad part of the flower is twelve inches wide by 18 inches long, and to this length is added a long, slender tail-like twisted appendage, forty-two inches long, thus making the flower sixty inches long! Mr. Sturtevant described the open flowers to me as being of a deep wine color, mottled with creamy yellow, and so malodorous or stapelia-scented that flies lay their eggs in them and breed magots. The plant is a luxuriant tropical vine with large, cordate leaves. It has not seeded with Mr. Sturtevant, probably, he says, because the right insects have not yet come around to assist in fertilizing it. He raises his stock from cuttings.

Regarding this remarkable plant I find the following interesting communication in the *London Garden*: "This species, figured and described long ago in the 'Botanical Magazine,' seems to have been lost to English gardens. Until the recent introduction of an African species, *A. Goldianna*, the flower of this plant, was often quoted as next, in point of size, to the gigantic *Rafflesia Arnoldi*, which is the largest of known flowers. Like that, it possesses the disgusting odor, and the general color of color, too, is the same. The young buds are much bent and have the appearance of the head and beak of a pelican when that bird is at rest. The expanded limb of the perianth is terminated by a tail sometimes more than 18 inches in length (by measurement those of Mr. Sturtevant's flowers are 42 inches long, W. F.). Dr. Lunan relates

* * * that a whole herd of swine were poisoned by eating the roots and young leaves of the plant. From this it derives its English name, Poison Hog-meat. Mr. Myers was often led to compare the large, fœtid blossoms on the bushes to colored pocket handkerchiefs laid out to dry. It is a native of the West Indies and South America. And referring to the still larger flowered kind, *Aristolochia Goldianna*, let me quote from the same article in the *Garden*: "The flowers are enormous, the one figured (in the Bot. Mag.) having measured 26 inches by 11 inches. The perianth externally is greenish, barred and veined with maroon red, the inside is reddish

brown, marked and splashed with orange yellow. It is named in honor of the Rev. Hugh Goldie, of the United Presbyterian church missionary society, and living plants were first sent to Great Britain by him from the Old Calabar River. Gustav Mann also found it near Sierra Leone." WM. FALCONER.

The Growing Importance of the Easter Trade and How to Prepare for It.

By JAMES DEAN, HAY RIDGE, N. Y.
[Read at the Boston Convention of the S. A. F. August 19.]

Easter, the anniversary of our Lord's resurrection from the dead, is the greatest of all festivals of the Christian church. Occurring each year between the 22nd day of March and the 25th day of April, it has been observed by all Christians as a festival of joy; and in many ways have the Easter holidays, at different periods of our history, been spent; in joyous sports, in processions, in attendance at church, in almsgiving, in the liberation of prisoners, and in the use of the Paschal or Easter eggs to such an extent that the price of the eggs advanced greatly, and in none of the works which refer to Easter in the earlier period of our history can we find where the price of flowers advanced, or where flowers were used to any extent at the festivals or decorations occurring during the Easter holidays; and indeed we can rapidly leave the earlier period and refer to a time within the memory of most of us when flowers or plants were seldom used either in church decorations or as gifts during the Easter holidays. Now the custom has become almost universal and the floral decorations of the churches and the larger cities at Easter are magnificent and on a scale of grandeur unthought of fifteen years ago and the Easter of to-day might well be called a festival of flowers. The custom of sending an Easter gift of cut flowers seems to have advanced to such an extent that dealers in choice Easter cards complain that it has seriously affected the sale of their cards at Easter.

Twenty years ago we had no Easter trade worth speaking of. At that time we grew a few plants of azaleas, L. longifloras, roses, mostly Plantiers, spiræa, dentzia and some Dutch hyacinths, but all of the above plants we grew in very limited quantities and mostly small plants. For the next five or six years the increase in Easter plants was very slight and hardly noticeable. From 1878 until 1888 the demand for Easter plants and flowers increased rapidly, and in some years exceeded the supply. For the past two years I have not noticed any increase in the Easter trade of New York City. It may be that there are more plants and flowers grown. It is certain that some of the New York City florists had any difficulty in supplying themselves with all the plants and flowers that their business required and that at reasonable prices. It is generally thought that, outside of New York and perhaps Philadelphia, the increase of Easter trade will continue for some years to come, especially so in the smaller cities, which will follow the customs of the larger ones.

Before entering on the subject of how to prepare for Easter there are a few questions which I shall read and every florist interested in the growing of plants and flowers for Easter will or should answer them for himself.

First, Is there a paying market in your vicinity for Easter plants in excess of the quantity that was grown for last Easter?

Second, To what extent would the market warrant the increase in the output of plants and flowers?

Third, What varieties can be grown and sold at a profit?

Fourth, As the shipping of Easter plants to a distance when in full flower is both expensive and risky, and as the flowers are liable to injury, the grower will have to depend largely on a home market for the sale of his plants.

First I shall take up the Easter lily, which in importance is placed at the head of the list of Easter plants, and under that head I include both longiflorum and Harrisii. Fully three quarters of all the lilies that are now forced are Harrisii, which is a great deal more profitable to grow, as it flowers more freely than the longiflorum, and the plants are not liable to come blind. It can be forced with safety at a higher temperature than the longiflorum, and if the plants are removed to a temperature of 50° at night and given air during the day two weeks before the flowers open they will be just as firm as the longiflorum and you will be able to cut nearly double the number of flowers. Most of the lily bulbs come from Bermuda, arriving here during the months of July and August. On the receipt of the bulbs they are potted in a light sandy loam to which has been added about one-third of well rotted manure, using a 5½ and 6-inch pot for the 5 to 7-inch bulbs; a 6½ and 7-inch pot for the 7 to 9-inch bulbs, and a 7 and 8-inch pot for the 9 to 12-inch bulbs. In potting the bulb we place it about one inch below the surface of soil. They are then set close together in a frame out of doors, given a good watering and covered with a mulch of hay or straw which prevents the soil from drying out so rapidly and saves watering. They can remain out of doors until frost comes, although a degree or two of frost will not injure the plants. From the time they are brought into the greenhouse until New Years a night temperature of 40° to 45° with plenty of air during the day is all they require. After New Years they may be removed to another house or the night temperature increased to 60° or 65° and even to 70° if the weather proves bad and there is little sunshine. Try to have the flower buds well above the foliage six weeks before Easter, so that standing in the doorway of the greenhouse you can plainly see all the buds. Bearing constantly in mind that it is a great deal easier to hold the flowers back by shading and giving plenty of air which hardens and stiffens them and enables them to bear transportation better than when you are compelled to hurry them into flower by steaming the pipes and watering them with warm water. Under such treatment they are fit only for the rubbish heap. Before delivery we cover each flower separately with fine tissue paper, cutting the paper into squares of 10 inches. The buds or unopened flowers are treated in the same way. In fact, we wrap up every plant we send out for Easter, and although it takes a great deal of time in the rush of Easter work we find it pays well as we have little complaint of flowers damaged in transportation.

The azalea is second in importance on the list of Easter plants, with its symmetrical head covered with flowers of the most gorgeous colors. It is a most decided favorite for Easter decorations. The most of the azaleas we force come from Ghent in Belgium, where the plants are grown in immense quantities. They are shipped here during October, and although packed carefully they do not

always arrive in such a condition that they can be used the same season, often dropping their foliage and flower buds, in which case they have to be grown another year before flowering. The successful Easter grower never depends on his last importation of azaleas, for the plants he will force for Easter, but always carries at least one year's stock of plants ahead, in case of loss or damage. The azalea during the winter months can be kept in a night temperature of 40° with plenty of air during the day until eight weeks before Easter. If Easter comes in March 55° will answer at night; if Easter comes in April 50° will be enough. It will be necessary to set some of the late varieties, such as Souv. de Prince Albert, Louisa Pyniert, Leonie Van Houtte and Souv. de Prince Albert alba, into heat two weeks earlier, and here I want to say, do not stand your azaleas in the shade of some convenient tree during the summer months and expect them to flower with you the following winter. Give them the open sunshine. Plunging or planting them out in a frame where you have grown your pansies will answer. If the soil is heavy add sand and leaf mold, as the azalea delights in a light loose soil. Mulch but do not use manure as it would injure, if not kill the plants. Water and syringe to keep down red spider. Treated thus they will make a good growth and mature their flower buds and give you a good crop of flowers when wanted. Be careful that the azaleas are housed before frost, as that would injure the flower buds.

The hydrangea is pushing our old friend, the azalea, very close for second place on the list as an Easter plant. And certainly a specimen plant of Ottaka is a sight to behold; covered with its immense clusters of bright pink flowers, often measuring over 12 inches in diameter, of a color that shows equally as well by gas as daylight, it is indeed a rival not to be trifled with. Thos. Hogg is still an old favorite with us all, with its many clusters of pure white flowers, and will always retain a prominent place among the plants grown for Easter.

Hydrangea rosea with its beautiful rose colored flowers as its name implies, deserves to be grown in all collections, although the flowers are not as large as Ottaka, or the plant such a vigorous grower. The color and the freeness with which it produces its flowers will always give it a place as a market variety. We have one or two new hydrangeas that promise to rival if not surpass Ottaka, but they have not been thoroughly tested. By mixing iron filings with the soil where the plants are grown during the summer, and when potted watering with alum water, you can change the color of the flowers of Ottaka or rosea to a blue.

The hydrangea is easily propagated from cuttings. A cutting struck in March, planted out before the first of May in a good rich soil and mulched and watered regularly, will by October make a plant fit to go into a 7 or 8-inch pot. Do not pinch or top the hydrangeas after the middle of June that are wanted for Easter forcing. It would be well to secure the hydrangea against frost as it is liable to injure the flower buds. I lift mine by the 10th of October, pot them in good rich soil and place them until New Years in a cold frame, giving air during the day and covering the frames at night to protect them from frost. They are brought into the greenhouse at New Years and given a temperature of 60° at night with air during the day for three weeks, then increase the temperature to 65° at night

with little air during the day, until the flowers begin to color. Then gradually give them more air during the day and reduce the temperature at night, which will give a bright color to your flowers and harden the plant, enabling it to stand out in the air without wilting, as a great many of our city florists have to display their plants in the open air in front of their stores. This rule ought to hold good for all plants that are forced for flowers, especially so with the hydrangea and Plantier rose, both of which if grown in a warm temperature and exposed without being hardened will wilt very badly if exposed to the cool air out of doors. The hydrangea when in growth requires plenty of water, and an occasional watering of liquid manure will be a benefit to the plant.

The genista, or as some prefer to call it cytisus, comes next to the hydrangea in importance as an Easter plant. There are two varieties grown. Genista Canariensis is best grown in its natural state and best suited for decorations where large plants are required. Genista racemosa is not of such strong growth as Canariensis and is better adapted for small plants and easily kept in shape by trimming which it stands well. The flowers are a little larger and of a deeper yellow than Canariensis. The genista is easily grown from cuttings. The plants grow freely in a light soil to which has been added some well rotted manure. Shifted as they require they soon make salable plants, but be careful not to overpot. Do not plant the genista in the open ground during summer as they lift very poorly, very often losing all their foliage. Plunge and mulch the plants out of doors during the summer, and see that they are watered and not allowed to get dry. They can be brought into the house the latter part of October. They will require very little forcing for Easter. 40° to 45° at night with plenty of air during the day until the first of February, when the temperature can be increased to 50° at night and less air given during the day, is all they will require. From the first of February they will need plenty of water, and one or two waterings with manure water that is not too strong will be of benefit to the plants, especially if they are grown in small pots.

The above four varieties of plants are those that are mostly grown and find the readiest sale at Easter in New York. There are other plants also largely grown, such as spiraea, deutzia, callas, roses, rhododendrons and geraniums. The cultivation of the above plants is so well understood even by the novice, that it will not be necessary for me to go into details. There are a large number of bulbs also grown for Easter, consisting of Dutch hyacinths and tulips, mostly double; narcissus and valley. The cultivation of the above is well known by all, and I shall only speak of the cultivation of the valley in pots. Plant 15 slips in a 5-inch pot 21 days before Easter and place them in the dark under the bench in a warm greenhouse for two weeks. At the end of that time they can be bunched and given light and air, which will give the foliage its natural color and harden the flowers. It makes a beautiful as well as an appropriate gift for Easter, and is in great demand and can be sold at a handsome profit.

There are also used at Easter large numbers of palms and other foliage plants; but as they are not grown especially for Easter but carried in stock, they can hardly come under the head of Easter plants. After Easter a great many of the

plants and flowers that are used for decorations in the churches are distributed among the hospitals and the sick.

Grow only the amount of plants that you can dispose of at Easter at a profit, for often the lily flower that will bring 15 cents for Easter will not bring half that amount the day after, and if Easter comes early it will be almost impossible to sell plants of azaleas, hydrangeas and many of the other plants, at any price, that are left over after Easter.

After New Year's the grower with Easter plants to force will often find himself with a house of plants that may have enough flowers on to make him hesitate to throw them out; he may reason that there is time to finish cutting the crop and by extra firing he will be in time with his plants for Easter, but does he count the cost of extra fuel? Or the danger he runs of getting late with his plants, or the injury that he does his plants by the high temperature that he will have to maintain to get them in flower in time? I think not, or he would at the proper time have thrown them out and given his Easter plants the time and attention which they require. Every grower will have to a great measure rely on his own judgment in the forcing of his plants, largely depending on the advanced state that they are in at New Year's which is the time we generally start to force for Easter and the house that he will use to force his plants in. If the house has a southerly exposure less time will be required than if the house is situated so that it only catches the sun for a short time during the day.

I have attempted to make this a practical paper and have given without reserve the manner in which I prepare and grow my plants for Easter, and if I have added anything new that will assist my brother florist in his Easter business, I shall feel that the time given to the preparation of this essay was not lost.

OBITUARY.

HENRY BENNETT.—A cablegram received August 15 contained the sad announcement that on the 12th, Henry Bennett, the famous rosarian of Shepperton, England, had passed away. Mr. Bennett had a host of American friends who will be deeply grieved to learn of his death.

Regarding his valuable work in the improvement of the rose, Mr. E. G. Hill writes as follows:

"In the death of Henry Bennett, floriculture loses a man who has been a positive force; a most conscientious worker has left its ranks and gone to his reward beyond this sphere of action. Rosarians have lost a most valued colleague, and his work is cut short at a time when it could ill be spared.

"Henry Bennett was a scientific and careful worker in every line to which he turned his attention, always seeking some definite object; how well he succeeded can be judged by the splendid productions which he has given the rose world.

"His life up to some twelve years since was principally devoted to stock raising and the production of fine cattle; he argued with himself that the same results were to be had in the raising of new roses that had attended his more than successful efforts in the improvement of his herd.

"In rose growing, he first sought to produce a free-flowering type with the characteristics of the Hybrid Perpetuals as to color and form, and the perpetual character of the Tea varieties. If many

of his first set of roses were somewhat disappointing, he it said, however, that they represented a type for which we had long been longing and looking, and which, previous to this time, had been represented only by three or four varieties of Hybrid Teas, and these were accidental seedlings, probably produced by insect agency; it may be said, however, that Beauty of Stapleford is still grown and much admired.

"The advent of Mr. Bennett's first set of Hybrid Teas had the good effect of stimulating the other raisers of seedling roses to seek crosses of a similar strain and to-day we grow many beautiful varieties, which, except for Mr. Bennett's efforts, we should never have possessed.

"His second set contained Lady Mary Fitz-Williams, Grace Darling, Countess of Pembroke and Heinrich Schultheis, four magnificent varieties, the latter being an H. P. The first named is justly esteemed in Europe as being, perhaps, one of the very finest varieties in cultivation, and to see it in the English rose nurseries is a sight never to be forgotten; if it did equally well in America we should place a much higher estimate on the labors of our friend who has done so much for another Hybrid Tea which has placed Mr. Bennett's name high with those who cultivate the rose in the open ground. We cannot pass without noticing Viscountess Folkestone, Meteor, Mrs. Jno. Laing, Wm. F. Bennett—all most remarkable varieties. Who, except perhaps M. Pierre Guillot, can show so many valuable additions to the lists of our roses?

"Her Majesty, Puritan, and Princess Beatrice were disappointing to those who purchased them for the special purpose for which they were so confidently recommended. That there are roses of considerable merit, no one will question, but no forcing roses, they failed in many necessary requirements.

"The disappointment attending their careful trial in America was very sorely felt by Mr. Bennett, and he was keenly sensitive to the resulting criticism of his American friends. He had a right to expect great things from Princess Beatrice as a forer by its growth and behavior at Shepperton; for, to say the least, it is a remarkably fine bud when nicely grown; it has made good record in the Southern States and also in California as a splendid out door rose.

"Just previous to his death, Mr. Bennett had received certificates for his seedling H. P. Rose, Capt. Hayward, a magnificent scarlet crimson, of fine form and heavy texture, as the writer can testify.

"Mr. Bennett's achievements command our admiration, and any faults into which he may have fallen, were those of the head and not of the heart, for he was above anything that was questionable or that savored of trickery.

"He was honest, earnest and thoughtful in all his undertakings, and he deserved better treatment than he received from the no small number of English rosarians who imagined that they and they alone knew how to produce seedling roses. So bitter and vindictive in their attacks were some of these assailants, that they proved to be no small factors in hastening the death of this good and honorable man.

"He never tired of referring to the kindly welcome given him by his co-laborers and florist friends in America, and he held them in grateful remembrance for the warm reception given him by the Chicago convention.

"A year ago it was the writer's privilege to spend a day under Mr. Bennett's hospitable roof and to learn from him

much that was valuable and interesting respecting roses and the production of new varieties. Out of the many thousands of young seedling plants then at Shepperton, and the great number of ripening seed pods, we shall be greatly disappointed if there do not issue from his latest work, results that cannot fail to add lustre to Mr. Bennett's name; and that will make him the foremost rosarian of his day and generation."

A portrait of Mr. Bennett appeared in our issue of June 1 last.

Scarcity of White Flowers in Fall.

As Mr. S. Taplin, in the *FLORIST* of August 1, wisely observes, a dearth of white flowers frequently troubles the florist. Particularly is this noticeable during September and part of October. This year the dearth will be more generally felt than ever on account of the dry weather experienced in many localities. And it is probably safe to predict that all outside flowers will be few and far between during the coming fall.

Mr. Taplin speaks of double white primroses and white azaleas as flowers of sufficient merit to supply this want. But to this assertion we the east would be reluctant to agree. Of all finny flowers an azalea is the worst, and as it cannot be cut with a stem, it is absolutely useless for our trade as at present developed, and the day is long gone by when any florist of this section will use them as cut flowers, provided anything else is obtainable that will answer his purpose.

Primroses may be of service. At one time they were grown around New York in some quantity, but now seldom are any seen. Other flowers that pay better have superseded them.

Besides, when chrysanthemums are in, white flowers are then plentiful. No man would use a primrose or an azalea for any purpose as a cut flower in preference to a chrysanthemum. Neither would any of our customers buy them instead.

It is during the month of October that the want of white flowers is most generally felt. And our aim should be to provide those flowers that are not only of use for funeral purposes, but can also be of advantage for boxes of cut flowers and corsage bouquets. No flower is of merit now unless it can be had with a stem, and is of some stability in its texture.

The flowers which best answer this description and which by judicious planning can be had in bloom during October, are carnations, candytuft, sweet peas, mignonette pyrethrum, and early geraniums. With the exceptions of carnations, all these should be prepared specially for October flowering, and as a second crop. The seed sown and the plants tended with this end in view. The expense is but trifling, but the convenience is great. There is no difficulty in having all the flowers above enumerated, as plentiful in October as in July.

This year, however, many calculations as to the supply of flowers for this month, will probably fail of success. The drought is so lasting and severe that all outside plants suffer greatly in consequence.

No better carnation for early work can be had than President De Graw. An old variety, but one of many merits. The flower buds set early, and as the plant is a fast grower it is usually of large size by the fall. Cuttings started in December, planted outside the following April, and not pinched back after the first week in August, will be sure to be covered with flowers by October.

Portia, for a scarlet, can also be had in flower in early season. Carnations

brought into flower in this way need not be used for winter work. They can be grown as an extra supply, and when their time of service is over, be thrown away or potted, stored in cold frames, and then sold as pot plants in early spring.

Albany, N. Y. ALFRED E. WHITTLE.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words each insertion). Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—As assistant gardener; commercial or private; age 32, single, English; sober; good character. D. BENNETT, 117 Harvard Street, Boston, Mass.

SITUATION WANTED—By florist competent to grow general collection cut flowers, geraniums and bedding plants, nursery stock, etc. Address H. S. EDGAR, 630 Bradley Ave., St. Louis, Mo.

SITUATION WANTED—By a practical gardener and florist; single. Wide experience in gardening. Strictly sober. Can take charge of any place. Best of references. Address J. S. CIFTON, Greene Co., Ohio.

SITUATION WANTED—As gardener; understands S. tropical and greenhouse plants in general; have 15 years experience. Address A. C. BASS, Kaye's Park, Lake Geneva, Wis.

SITUATION WANTED—By a practical florist and grower; had 20 years' experience. Temperate good habits; small family. Private place preferred in good growing city. Address WILLIAM BLAKE, P. O. Box 42, Delabak, N. Y.

SITUATION WANTED—By a practical gardener and florist; competent in all branches, commercial or private place. Roses, carnations, violets a speciality. Married; age 26. H. G. 815 8th Ave., cor. 40th St., New York.

SITUATION WANTED—As foreman in commercial place, by an accomplished florist, thoroughly posted in all branches. Good references can be furnished. States of Minnesota and Colorado preferred. Address ORNATE, care American Florist.

SITUATION WANTED—By a practical florist; German; single; well up and long experience in all different branches of gardening. Sober and steady. Chicago or west of same preferred. Address FLOREST, care T. S. Edwards, 210 Main St., Buffalo, N. Y.

SITUATION WANTED—As foreman by a steady S. German florist. Good cut flower grower and propagator—specialty roses. 25 years of age; married. In answering please state salary. Address H. R. care Meyer, Jefferson Ave., near Benson Park, St. Louis, Mo.

SITUATION WANTED—From now to the 1st of S. April, by a practical florist and gardener; 19 years experience in all branches of floriculture; excellent rose grower; German; married; age 35. Good references. Address T. MCKENZIE, care American Florist, Chicago.

SITUATION WANTED—Florist and gardener at present managing florist business in the vicinity of Cleveland, O. 10 years' practical experience in all branches of horticulture, open for engagement first of September. Single age 28. For further particulars apply to T. MCKENZIE, 501 St. Clair Street, Cleveland, Ohio.

SITUATION WANTED—In a commercial place as propagator and grower of roses, carnations and other florists' stock. Experienced in all branches of the business both in England and America. Best of references as to ability and integrity. 35 years foreman in this business. Married. Address J. N. L. care American Florist, Chicago.

WANTED—A good florist and gardener. Address WILSON & Co., Shreveport, La.

WANTED—Capable man, to take charge of plant department in store. Address J. THORLEY, 117 5 Broadway, New York.

WANTED—A young man. Must be a successful propagator of roses and general greenhouse and potting, filling orders, and the regular routing of work on a florist's place. Apply, stating wages expected, etc. F. K. BROWN, 1010 Flower Garden, Clarksville, Tennessee.

California's New Rose "THE RAINBOW."

READY FOR DISTRIBUTION.

During the recent Rose Show of the California State Floral Society the "RAINBOW" received more admiration than any of the thousands of flowers exhibited, and the highest comments of the press.

Stock in the best possible condition at the following prices: 1 Plant, \$1. 12 Plants, \$10. 100 Plants, \$75.

TERMS CASH.—Remittances may be made by Draft, Postoffice Orders, or Wells, Fargo & Co. Money Orders.

Description and Colored Plate of "THE RAINBOW" will be mailed on application.

JOHN H. SEELERS, SAN FRANCISCO, CAL.

WANTED—A good steady man, one who understands the growing of roses, bedding plants, propagation, etc. Also one who can do the odd man, one who must be willing to work. References required. W. A. BOCK, North Cambridge, Mass.

FOR SALE—Weathered boiler, \$65.00, good as new, used two winters. Address T. B. care American Florist, Mass.

FOR SALE—One Hitchings boiler No. 16 and 130 feet of 4-inch greenhouse pipe. W. A. BOCK, North Cambridge, Mass.

FOR SALE OR RENT—Two greenhouses, one 16x20 and one 25x40, good as new, with benches, on or address J. B. WEST, Wrentham, Mass.

FOR SALE—Eight greenhouses 35 feet long, and eight acres of ground, near City of New York, City, N. Y. Also for rent, MARGARET KELLER, 265 Terrace St., Waltham, N. Y.

FOR SALE CHORD—A good 25-horse power steam boiler, about 250 feet long, with valves, valves, fixtures, etc. All in good condition, having been used only two seasons. Address GRUPE, The Florist, Schenectady, N. Y.

FOR SALE—A florist establishment of five greenhouses in first-class condition and every convenience. Situated in good city of New York, City, N. Y. over 10,000 inhabitants within 20 miles of Chicago. Wish to retire from business. A splendid opportunity to step into an established business. Address MAITA, care American Florist, Chicago.

FOR SALE—A florist establishment, one greenhouse 25x15 and two 15x15 feet each, heated by hot water (Westchester), 25 acres of good land, some wood and pasture, plenty fruit; dwelling house, barn and other buildings. Private place preferred. All buildings new and in good order. One hour from New York City and one mile from depot. Price, \$15,000 or will sell the greenhouse property separate for \$2,500. Address P. O. Box 10, Ramsey, N. J.

A BARGAIN.

A WELL ESTABLISHED Florist Business for sale. Four houses, well stocked and equipped. Must sell, for good reasons, even if at a sacrifice. Growing Ohio city of 25,000 inhabitants. Large trade with surrounding towns. Address

OPORTUNITY, care Am. Florist.

FLOREAL LAWN FOR SALE.

Pleasant home and good business as any in the city. Building new, well stocked with plants, signs, heating apparatus and all complete for floral business. In account of poor health am obliged to sell. Will reserve dwelling and sell everything else for \$3,000, or with dwelling for \$8,000. One-half the purchase money to remain on mortgage for term of years required. Possession immediately. Several choice lots in different parts of the city. Address W. W. W. 115 & 117 E. Fulton St., Gloverville, N. Y.

Extraordinary BUSINESS CHANCE.

FOR SALE OR RENT ON LONG LEASE.

A splendid business plant, comprising 13 houses in all, 70,000 square feet of glass, well stocked, and 15 acres ground in Chicago, 75 miles from retail business center. Everything substantial and convenient; good water supply and heating apparatus. The business is profitable and growing. Ice house and storehouse on grounds. Owners have other business that require their entire attention. For further particulars address F. O. CARE CHAS. HAMMILL, mgr., 20 Lake St., Chicago.

FOR SALE OR LEASE.

A great opportunity. A first class florist business consisting of about two acres more or less of very rich ground, thereon seven greenhouses, about 7,000 feet of glass, five are heated by steam and two by fuel, 100 hot bed sash, good dwelling, inexhaustible water, two wells and tank, pipe for distributing, new wind mill fixtures complete. For particulars send for prospectus. Price very low for value of place. A good reason for selling will be furnished on application.

M. TUTTSCHER, Nashville, Tenn.

IMPORTED H. P. ROSES,

Worked low on the Manhattan Show, the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the dozen, 100, at low rates.

Price lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

ROSES**FOR IMMEDIATE PLANTING**

	2-inch.	3-inch.	4-inch.
Duchess of Albany.....	\$12.00	\$15.00	\$18.00
Mme. Hoste.....	7.00	10.00	12.50
Am. Beauties.....	8.00	12.00	15.00
La France.....	5.00	9.00	12.50
Gontiers.....	4.00	8.00	12.00
Perles.....	4.00	8.00	
Niphetos.....	4.00	8.00	
Mermets.....	4.00	8.00	
Brides.....	4.00	8.00	12.00
Bon Silene.....	4.00	7.00	10.00
Balto. Belle, strong, 4-inch,	\$3.00	per 100	
Gen'l Jack, 2 in. \$4.00	per 1000;	3-in. \$8.00	per 100.

H. Perpetual, 40 var. 2 in. \$5.00 per 1000.
 Geraniums—latest Novelties.
 Latania borbonica, 5 in. \$4.00, 4-in. \$3.00
 per dozen. **SEND FOR LIST.**

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.
 Mention American Florist.

ROSES FOR FORCING.**BROWN & CANFIELD,**
SPRINGFIELD, ILL.

Still have Fine Plants of Following
 at reduced prices:

CATHERINE MERMET, 3-inch.....	Per 100 \$6.00
LA FRANCE, 3-inch.....	7.00
PAPA GONTIER, 3-inch.....	5.00
MME. DE WATTEVILLE, 3-inch.....	6.00
MME. CUSIN, 3-inch.....	6.00
PERLE DES JARDINS, 3-inch.....	7.00
SUNSET, 3-inch.....	7.00
MME. HOSTE, 3-inch.....	8.00
DUCHESS OF ALBANY, 3-inch.....	10.00
A few LA FRANCE and MERMET, 4-inch.....	10.00

Send for samples by mail.
 Mention American Florist.

FIVE NEW AMERICAN ROSES

Probably the most interesting Novelties of the coming season, and those that will attract the widest attention of the Trade on both sides of the water. are our

NEW AMERICAN SEEDLING ROSES,

HENRY M. STANLEY,
 MRS JESSIE FREMONT,
 MAUD LITTLE,
 PEARL RIVERS,
 GOLDEN GATE.

Five New Teas of Sterling Merit, originated, grown, and tested in this country, and sent out on their merits at reasonable rates. Orders can be booked now, and will be filled in rotation as received—April 1st next. Full descriptions ready Jan. 1st.
 Prices, \$1 each; set of 5 for \$5; two of each, 10, for \$9; five of each, 25, for \$20.

THE DINGEE & CONARD CO.,

Rose Growers, West Grove, Pa.

FOR SALE.**CLIMBING NIPHETOS.**

We have several hundred fine plants of the above Rose in 4-inch pots, 15 to 18 inches high. Also

PERLES, MERMETS, BRIDES, BON SILENES and GONTIERS,
 4-inch pots, fine plants.

Write for prices, stating number wanted.

SALTER BROS., Rochester, N. Y.**ROSES****FOR WINTER BLOOMING.**

10,000 healthy Roses from 4-inch pots, consisting of
 Mermets, Brides, Perles, Cusins,
 Souv. de Wootton, Papa Gontier,
 La France and Niphetos,
 at \$10.00 per 100.

Bon Silene and Safrano, \$8 per 100.

Also 10,000 SMILAX from 2½-in. pots,
 at \$4.00 per 100.

JAMES HORAN, BRIDGEPORT, CONN.

C. M. PRESBY.

CHAS. P. ANDERSON

JOHN HENDERSON CO.,

Flushing, L. I.

ROSES A SPECIALTY. ROSES.
THE CLIMBING PERLE DES JARDINS.

TO OUR PATRONS, AND THE TRADE GENERALLY:—We are convinced that this Rose will prove of permanent value—indoors and out. Its continuity of flowering, vigorous growth, large flowers, beautiful in color and form—a true Tea—must commend it to all.

Strong plants Ready April 1st, \$1.00 each; \$10.00 per dozen.

All the Old, New and Forcing varieties on hand, at lowest prices.

WRITE FOR CATALOGUES AND PRICES.

THE OAKS ROSE NURSERIES**ROSES.**

Meteor, Mme. Cusin, Perles, Niphetos, Mme. de Watteville, Briders, Papa Gontier, Mermets, Magna Charta, and Gen. Jacqueminot.

CARNATIONS.

Hinsdale, May Queen, Orient, Silver Spray, Paxton and Buttercup.

Strong healthy plants at lowest prices. Write for particulars.

JOHN H. TAYLOR,

BAYSIDE, L. I., N. Y.

ROSES.

We still have a nice stock of Cut Flower Roses which we wish to close out, and will make special low prices. Send us a list of what you can use, we will make the prices suit you. They are in 2, 3 and 4 inch pots and the following varieties: Catherine Mermet, The Bride, La France, Bon Silene, Perle des Jardins, Safrano, Niphetos, Papa Gontier, Souv. d'un Ami, Madam Hoste, Duchess of Albany and Grace Darling. We are headquarters for Rhododendrons, Hardy Plants and Tuberosa Begonias.

B. A. ELLIOTT CO.,

Pittsburg, Pa.

ROSE PLANTS.

Extra fine stock for forcing. Lowest prices. All two-eyed cuttings from 3 and 4-inch pots.

\$7.50 and \$9.50 per hundred.

PERLES, NIPHETOS, CATHERINE MERMETS, BRIDES AND PAPA GONTIERS.

A very large stock fine PÆONY ROOTS for Fall Delivery.

—TERMS CASH.—

THE FOREST GLEN FLORAL CO.,

Main Office: 173 WABASH AVE., CHICAGO, ILL.

ROSES.

We offer for sale 10,000 first quality Roses grown from two eyed cuttings. They are in fine condition for immediate planting.

Perles, Mermets, Brides, Niphetos, Safrano and Bon Silene.

Price, 3-inch pots, \$7.00 per 100. 4-inch pots, \$10.00 per 100.

SOUVENIR DE WOOTTON: 3-inch pots, \$12.00 per 100. 4-inch pots, \$15.00 per 100.

PAPA GONTIER and LA FRANCE: 3-inch pots, \$8.00 per 100. 4-inch pots, \$12.00 per 100.

SMILAX. Fine, vigorous plants, from 2½-inch pots, \$2.50 per 100; \$30.00 per 1000.

J. L. DILLON, BLOOMSBURG, PA.

THE AMERICAN FLORIST

Subscription \$1.00 a year. To Europe, \$1.50.

Advertisements, 2 Cents a Line, Agate;
Inch, \$1.40. Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.
Discounts, 3 months, 5 per cent; 6 months, 10 per cent; 12 months, 20 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in flowers pertaining to those lines ONLY. Please to remember this.

Orders for less than one-half inch space not accepted.

Advertisements for Sept. 15 issue must REACH US by noon, September 9. Address

THE AMERICAN FLORIST CO., Chicago.

THE BOSTON MEETING.

For six years the florists of America have met and for five times it has been a pleasant duty to accord each succeeding occasion the greatest success. This sixth reunion at Boston can only fill its proper place in the line when viewed from another side, not from that of actual convention work accomplished. It is in the magnificent exhibitions and decorations; in the delightful excursions to ideal country homes; in the lengthened opportunities for making and renewing acquaintances that we may claim this gathering has through the eye given us broader and more ennobling ideals than any former years' work. But in the line of essays and discussions, particularly the latter, there was much room for improvement.

It is no new criticism to say that members will straggle and prove dilatory at the business sessions, while to compel discussion has been at all times difficult. Is it strange then with two fine halls packed with exhibits of every class, with some variation in hotel arrangements and a few lost in the crooked streets that the actual attendance was lighter than it should have been. Out of it all we read that there is both work and study for our officers to make the next session at Toronto what it should be. How it shall be done should be stated to our members in season and in a convincing manner to induce a full attendance with our generous hearted Canadian friends.

THE PAPER upon Easter Plants by Mr. Jas. Dean, which was read before the Boston convention and which we print in this issue, is one of the most valuable that has been developed in the meetings of the society. Mr. Dean's reputation in his great specialty—the growing of Easter plants—is so well known that anything from his pen will be read with interest, and this particular paper should be kept for reference, as it gives full instructions with the dates for starting and temperatures to be maintained so completely as to leave nothing to be desired.

THE ANNUAL exhibition of the Mass. Hort. Society held in Boston during convention week, was simply grand. Competent judges declared that it has never been equalled in America. Every plant shown was a specimen and the grouping was admirable. Our page of illustrations of this exhibition will, we believe, be highly appreciated by our readers, though it can give but a faint idea of the beauty and educational value of the exhibition.

Quite a NUMBER of interesting communications have been crowded out of this issue by press of convention matter. They will appear at an early date.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XVI.

"ACTS OF GOD" ETC.

Oh, yes, I remember those orchids very well indeed. They were hybrids which you had produced after several years of experimenting and they reflected great credit upon your skill and patience as a student of nature. Quite likely to get you into a law suit are they? Let me hear all about it.

I understand then, you sold them for \$500 to Judge Cheatham who left them in your hot house while he and his family were in Europe and they were destroyed by the fire which broke out when your place was struck by lightning late in the summer. The Judge now threatens to sue for the \$500. Well, take courage, he'll not do anything of the kind. You insured them against fire, that was as far as you were called upon to go. The descent of the lightning was what the law denominates an "act of God."

Let me define an "act of God" for you. It is some occurrence taking place in the natural world which is not brought about by any human agency and which no human foresight could have prevented or which can not be attributed to any carelessness or negligence. Now a stroke of lightning, an earthquake, a cloudburst, a tornado, a tidal wave, a sinking of the earth's crust, etc., are all "acts of God."

Lightning rods? Unless there was a special contract to that effect no warehouse man would be obliged to put rods on his building. In fact, scientific men are not at all agreed that rods afford any protection, and many even claim that they serve to increase the danger by attracting the destructive fluid.

But before the law will accept a so-called "act of God" as an excuse you must show that the damage was the direct and immediate result. For instance, suppose the lightning should strike next door and the building be wrapped in flames, if you showed negligence or carelessness in removing the property of others entrusted to you for safe keeping you might be liable. It would depend somewhat upon the contract of storage.

Or again, suppose for some reason the ground where your hot houses stand should begin to subside. The law would expect you to take warning and remove all property charged for storage by you to a safe place. Nature often gives warning of contemplated blows. A sudden and extraordinary darkening of the sky ought to be sufficient warning for you to remove your delicate plants to a place of safety.

You ask me what the law would be in case you made a contract to deliver so many thousand cut roses and then fell dangerously ill. It would not be such an act of God as would save you from a suit for damages unless you could show that the contract contemplated roses grown by your own personal care and attention. The law never attempts to make a man do an impossible thing.

For instance, let us suppose that I am a famous portrait painter and make a contract to paint your portrait within one year from date, but just after making the contract I have an attack of rheumatism which stiffens my index finger. Equity in this case would let me be a judge whether I could paint the portrait or not.

Now to come back to this matter of act of God, as you ship goods by railway and steamboat it may be worth your while to listen for a few moments. A common carrier is always responsible for any loss or injury happening to goods while in his keeping for the purposes of his contract. Mark my words well. Now the exceptions are "acts of God" and the public enemies.

The common carrier is required to see to it that no loss or injury comes to the goods in his charge by reason of his negligence or his design, either personal or constructive. That is to say, if you ship a lot of rare fruit trees and a "cloudburst" sinks the track, derails the train and a carboy of acid is broken and your trees destroyed by it you'd have no cause of action. But on the other hand, if the track was merely washed away by the breaking of a dam, no matter how securely built, the carrier would be held for the damage. Now there's another point. After the happening of the "cloudburst" if you could show negligence in removing your goods to a place of safety you could recover.

You ask me whether the depredations of train robbers may be excused as acts of God or the public enemies. Of course not. The carrier might after paying such a loss fall back upon the county or state for his damages. True, if there was war between this country and England and a party of Canadian guerillas should swoop down upon a railway train and carry away your shipment of cut flowers you'd have no redress against the company. A carrier would not be held to protect your goods against the whole British Empire.

You say there is another phase to Judge Cheatham's demand against you. He takes the position that you guaranteed to him that your hot houses were fire proof. I don't think the use of the words "fire proof" means any absolute guarantee of indestructibility. No building can be absolutely fire proof. The words are merely descriptive of a certain class of buildings. A maker of "burglar proof safes" would not be able to do business very long if he had to pay back all the money stolen from his "burglar proofs." They may be "burglar proof" provided the skilled mechanic who enters the premises can not explode his dynamite, but not otherwise.

Has our friend Judge Cheatham any other points? No? Well then I think you are pretty safe, but my advice to you is that you print on the receipts which you give for plants stored or left with you for culture and training the conditions under which you receive them. But this will not be sufficient. You must add a clause like this: "Above conditions are hereby agreed to," and make the owner put his or her name or initials on a duplicate receipt.

Trouble? Of course it's trouble to breathe in hot weather and to keep warm in cold, but it must be done. A little more trouble one way or the other makes very slight difference. But there is one good thing about trouble. It pretty generally pays.

You remember that rose bush in front of my door? Well, you told me that unless I sprayed it with insecticides every morning I'd have no roses. I took your advice and you recollect what a crop of beauties I had. My neighbor Slowman refused to take so much trouble. He had a splendid crop of worms.

Well, what is the question? I may answer by saying that in most of the

states of the union the destruction by fire of leased premises breaks the lease and puts the parties where they were before its execution. In all important leases, however, it is customary to provide for such a contingency.

UNCLE BLACKSTONE.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,

And the Choicest ROSES for the
fall and winter season.

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ESTABLISHED 1877.

Price List sent upon application.

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Orders to be shipped will receive prompt attention.

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ROSE BUDS IN ANY QUANTITY SHIPPED
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AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations
always on hand. Return telegrams sent
immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL

Wholesale Markets.

Cut Flowers.

Roses, Tea.....	BOSTON, Aug 25	\$1.00
" Fancy.....	2.00 @ 3.00	
Gladiolus.....	2.00 @ 3.00	
Carnations.....	.50 @ 1.00	
Anters.....	.50	
Tuberose.....	.50	
Hydrangeas.....	4.00	
Smilax.....	12.00	
Adiantum.....	1.00	

Roses, Beauties.....	PHILADELPHIA, Aug. 25	\$1.00
" La France, Mermets.....	3.00 @ 4.00	
" Perles, Niphetos.....	2.00 @ 3.00	
" Marie Guillot.....	2.00	
Carnations, long.....	.75 @ 1.00	
Gladiolus.....	2.00	
Tuberose stalks.....	2.00 @ 3.00	
Anters.....	.50 @ 1.00	
Sweet peas.....	.50 @ 1.00	
Smilax.....	15.00	
Adiantum.....	1.00	

Roses, Bon Silene.....	NEW YORK, Aug 25	\$1.00
" Goutiers.....	1.00	
" Perles, Sunsets.....	2.00 @ 3.00	
" Niphetos.....	2.00 @ 3.00	
" Watteville, Cannes.....	2.00 @ 3.00	
" Mermets, Brides.....	2.00 @ 3.00	
" La France, Champs.....	3.00 @ 4.00	
" Bennetts, Hostes.....	5.00 @ 6.00	
" Beauties.....	5.00 @ 6.00	
Valley.....	3.00	
Smilax.....	8.00	
Carnations, long.....	8.00	
Adiantum.....	1.50	
1000 lots \$10 per 1000.	Roses in	

Roses, Perles, Niphetos.....	CHICAGO, Aug 27	\$4.00
" Goutiers.....	3.00 @ 4.00	
" Bon Silene.....	1.50 @ 2.00	
" Mermets, La France.....	1.00	
" Brides.....	1.00	
" Am. Beauties.....	10.00	
" Bennetts, Dukes.....	4.00	
Carnations, short.....	.25 @ 1.00	
Carnations, long.....	1.00 @ 1.50	
Callas.....	10.00 @ 15.00	
Valley.....	10.00 @ 20.00	
Smilax.....	3.00 @ 4.00	
Tuberose.....	1.00	
Violets.....	3.00 @ 4.00	
Sweet peas.....	.50 @ .75	
Gladiolus.....	1.00 @ 1.50	
	8.00	

WM. J. STEWART, Cut Flowers & Florists' Supplies

WHOLESALE

67 BROMFIELD ST., BOSTON, MASS.
Mention American Florist.

GEO. MULLEN, WHOLESALE FLORIST.

Florists' Supplies Always in Stock.

17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express
promptly filled.

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WELCH BROS., WHOLESALE FLORISTS.

165 Tremont Street, BOSTON, MASS.
We make a specialty of shipping choice Roses and
other Flowers, carefully packed, to all points in
Western and Middle States.
Return Telegram is sent immediately when it
is impossible to fill your order.

EDWARD C. HORAN, 34 W. 29th St., NEW YORK.

Having removed to more spacious quarters
(next door) with increased resources and facilities
I am now prepared to furnish at short notice and
in any quantity, selected Roses of every variety,
also all other flowers in market.

Roses to be shipped are especially selected,
and packed under personal supervision.

SPECIALTIES:

American Beauty, La France, The Bride,
Mermets, Mme. Hoste, Duchess of Albany.

— WRITE FOR PRICE LIST. —

Return telegrams sent when orders or part of
them cannot be filled.

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E. H. HUNT, 79 LAKE STREET, CHICAGO, Successor to VAUGHAN'S CUT FLOWER DEPT.

Our stock is cut with special reference to ship-
ping trade, which comprises the greater part of
our business. We therefore claim that we are
better prepared to attend to the wants of FLOWER
BUYERS, outside of Chicago, than any house in
the West.

OPEN DAILY: { Week days till 7 P. M.
Sundays till 12 M.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

We always have choice, Fresh Cut Flowers in
season. The best packers in the trade. Orders
promptly shipped. Store open until 7 P. M.
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WIRE WORK A SPECIALTY.
Extra designs made to order. Write for price list.
Consignments Solicited. Telephone 496.

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OPEN DAILY: { Week days till 7 P. M.
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shipping. Mention AMERICAN FLORIST.

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Commission Dealer in Cut Flowers,
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Quick sales and prompt returns guaran-
teed. Consignments solicited.

CUT FLOWERS

The choicest Cut Flowers at lowest market rates
shipped C. O. D. Telephone connection. Use A. F.
Code when ordering by telegraph. For prices, etc.
Address,

J. L. DILLON. BLOOMSBURG, Pa.

DIRECTORY.

Every Florist, Nurseryman and
Seedsmen should have one.

AMERICAN FLORIST CO., Chicago.

The Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president. JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

MR. H. L. VILMORIN, of the Paris seed firm, Vilmorin Andrieux & Co., is visiting this country.

KANSAS CITY, MO.—T. Lee Adams and the Harnden Seed Co. were damaged by fire and water about August 20.

OAKSHOTT & MILLARD, well known seedsmen of Reading, England, are reported to have failed, and offer to settle at 25 cents on the dollar.

MR. J. COMONT, representing Messrs. Jas. Carter, Dunnett & Beale, of London, is now on his annual visit to this country and attended the Boston convention.

MR. CHAS. HENDERSON, Mr. John A. Watson, Robert George, A. D. Cowan, J. E. Robinson, R. & J. Farquhar, L. L. May and other seedsmen attended the Boston convention of florists.

INDIANAPOLIS, IND., August 31, 1890. Am. Florist Co., Chicago, Ill., *Gents*:—You stated in your August 1 issue that I had "lately assigned." This is false, as I did not make an assignment. Now August 15 you say I am "offering 25 cents on the dollar. I am not at this present time, but have settled with everybody. Don't owe anything. It is time you get settled on this matter. The J. A. Everitt Seed Co. is continuing the business. Do you understand?

Truly, J. A. EVERITT.

Insects and Diseases.

Conducted by CHARLES F. BAKER, Agricultural College, P. O., Igham Co., Mich. Send specimens of unidentified insects and diseased plants to him at above address.

The Lily Disease.

(*Polyctis cana*, Berk.)

The great bane of the lily grower's life is the so-called "lily spot" or "lily disease." In England florists have been troubled with it a great deal more than they have in this country. It is, however, becoming prevalent here, as letters from florists in different parts of the country show. The disease is caused by a fungus growth. The fungus is a *Botrytis* of the *Polyctis* type, and among mycologists is known as *Polyctis cana*, Berk. It was brought to the notice of vegetable pathologists in 1869, and was first studied by Rev. M. J. Berkeley, and in 1881 was described by him in the *Gardener's Chronicle*. Others have also spent considerable time in the study of it. We are, however, indebted to the later and more thorough investigations of Prof. Marshall Ward for the greater part of our knowledge in regard to it.

A good idea of its action, when most virulent, may be gained from a letter written by a florist in Walthamstow, England. He says: "At first it was supposed that the plants had been struck by lightning, because others in beds near by were not touched. The next day those that had looked black the day before were blacker than ever and the buds of the green ones were all covered with small light brown spots. On in-

specting the plants the third day it was found that not only were the plants first attacked, completely spoiled, but that it had spread like 'wild fire' to plants thirty yards distant." Mr. W. G. Smith, of Dunstable, England, in describing the work of this fungus says: "The lily stems are left like dead, brown sticks and the leaves hang around the withered discolored stems like fragments of ragged, brown, sodden tissue paper." Only the spots appear during dry weather, but a wet spell will cause a heavy growth of a grey fungus—mould-like in appearance—to spring up around the spots. After this decay progresses very rapidly and the growth of the fungus increases. It does not always make its appearance on the outside, but often grows on the inside of the leaves and stems as mycelium only. A vertical section through a decayed bud or badly diseased patch shows the grey growth around the spots to be large numbers of straight branched conidiophores (Fig. 1) which break through the skin of the plants from the inside, and which finally bear the conidia (Fig. 1 B) or spores. These conidiophores (Fig. 1 C) get to be from one to three millimeters in length. After they have bored their way through the walls and cuticle of the epidermis cells (Fig. 2) and made considerable growth, they send out from two to five branches (Fig. 2 A) at the end, which are short and stout. During this time the main stalk has become sepia-brown in color and divided (Fig. 1 D) by partitions. Soon there appear on the enlarged ends of the branches little projections which ultimately become the conidia (Fig. 1 B). By exam-

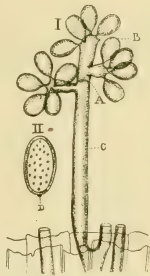


Fig. 1. (After Smith.)

ining a cross section of a decayed bud the hyphae are to be found in every part. The mycelium entirely fill all the cell cavities and lacunae of the calyx and corolla, and also the tissues of the anthers and ovary. Where the fungus thus occupies the tissues, no perfect cells can be found, because the effect of the hyphae so completely occupying the tissues, is to change the whole into a brown homogeneous decayed mass. Through this run the strands of the mycelium. The mycelium, as it exists fresh in the plant, and branches freely, has many partitions and is colorless. With age, however, it may take on a pale sepia tint. The colorless branches which come to the surface to form conidiophores, on growing older, turn brown, as do also the conidia as they ripen. When a conidium (Fig. 1 B)

has attained maturity it is ovoid, pale brown in color, and is 1.50 to 1.40 mm. long by 1.70 to 1.60 mm. broad. A small portion of the sterigma (Fig. 1 B) which held it to the conidiophore may often be found at the smaller end of the conidium. They are produced and ripen very rapidly.

This fungus seems to attack the living tissues directly, and that below the sur-

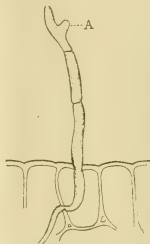


Fig. 2. (After Ward.)

face. Unless the conditions are favorable the spores will not be produced and only mycelium can be found. In this case it would be difficult for the fungus to spread from plant to plant. The growing young plant may possibly carry the spores up from where they have lodged in the soil, or they may be blown directly to the plant by wind. It is an extremely variable fungus. Sometimes it might be said to be stemless, while at others it is extended to a considerable length. It may produce a large number of spores on each branch, or the branches may be much drawn out and only have one spore each. An interesting fact, and one which was somewhat misleading at first, is that the lily spot is almost identical in appearance with the carnation spot, which is produced by nematode worms. Mr. W. G. Smith has even stated that the nematode worms are almost invariably found in connection with the lily disease. Besides attacking most species of lily, *Polyctis cana* has been known to occur on tulips, humea and scrophularia.

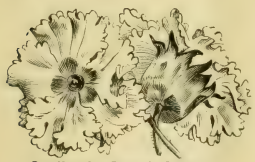
A number of florists state that from their experience the lily disease does not attack the same plants year after year. This is not known, however, to be the rule in every case. Its ravages are not confined to the open air, as it also attacks plants in the greenhouse. Here the conditions of damp air, damp soil and sudden changes of temperature, which seem to greatly aggravate the disease, can be regulated. If, however, we wish to rid the lilies of the disease—thoroughly and effectually—more strenuous measures must be employed. In considering the question of remedies the fact must be taken into account that the mycelium of the fungus grows underneath the skin of the plant, and consequently any remedy applied to the surface could only destroy or prevent the formation of spores, and so save some plants and protect others. Prof. L. K. Taft has kindly furnished me with the following account of the mode of treatment: "Carefully gather and burn the diseased leaves, buds and stalks after they have died down. The next spring as soon as the plants have made a

good start spray them thoroughly with ammoniated solution of copper carbonate, made by dissolving one ounce of copper carbonate in one quart of ammonia (20°) and diluting with twenty gallons of water. If this is repeated every ten days it will greatly reduce, if not entirely prevent, the attack. Care should be taken not to touch the interior of the open flowers with the solution, as it would spot them. A solution of liver of sulphur—one-half ounce to the gallon—has also a good effect."

The Cemetery Superintendents.

The Association of American Cemetery Superintendents held a very successful meeting in Boston on same dates as the convention of the S. A. F. There were many essays and discussions of great practical value to those having charge of the "silent cities of the dead," and the social feature of such gatherings was not forgotten. The convention visited the beautiful cemeteries in the vicinity of Boston, and found much to interest and instruct.

A round hand bouquet consisting of six white water lilies of medium size and one scarlet gladiolus flower in the center with a border of ferns is retailed by the Italian fakirs in New York City for five cents.



Gardiner's Superb Strains of CHINESE PRIMULAS

PRIMULA SINENSIS FIMBRIATA, choicest mixed ex. ex. 100 seeds 25c; 500 seeds \$1.00; 1000 seeds \$2.00.
PRIMULA SINENSIS FIMBRIATA FILICIFOLIA, choicest mixed (fern leaved), ex. ex. 100 seeds 25c; 500 seeds \$1.00; 1000 seeds \$2.00.
PRIMULA SINENSIS FIMBRIATA, double, scarlet, ex. ex. 100 seeds 50c.
PRIMULA SINENSIS FIMBRIATA, double, white, ex. ex. 100 seeds \$1.00.
PRIMROSE, Yellow, English, pkt. 25 cts.
PRIMROSE, New English Hybrid, pkt. 25 cts.
POLYANTHUS, Cloth of Gold, pkt. 25 cts.
Yellow, pkt. 25 cts.

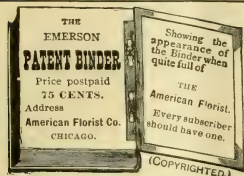
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Seed Growers, Importers and Dealers,
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SMILAX.

Fine thrifty plants from 2½-inch pots,

\$3.00 per 100; \$25.00 per 1000.

Address **J. G. BURROW,**
FISHKILL, N. Y.



Convention S. A. F. Photographs 1890.

Splendid Photographs of the group at H. H. Hunnewell's estate were secured by **MR. CHAS. STORER, Artist.**

Also other views on the estate, and in Music Hall, Boston, a set of which will make a valuable and beautiful souvenir, size 8 x 10 on 11 x 14 mounts.

90 cts. each; \$7.00 per dozen; \$4.00 half dozen.

I will select the very best if left to me.

CHARLES STORER,
25 BROMFIELD ST. BOSTON, MASS.
Please send Remittance with order.

PRIMULA OBCONICA SEED.

NEW CROP NOW READY.

Primula Obconica, pkt. (1000 seeds) 8. 75
Primula Floribunda, crop 1888, pkt. (100 seeds) . 25
Pansy Seed, Trimardeau, choicest mixed, pkt. . 25
500 seeds 1.00

I. N. KRAMER & SON,
MARION, IOWA.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS,** **CARNATIONS** and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

G. BENARD,

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ROSES ON THEIR OWN ROOTS

A SPECIALTY.

Special Offer for Fall Delivery.

GOOD, STRONG PLANTS. Per 100 Uter 1000

Laurette de Messimy (New China) ext. B. 4. 0	\$40.00
Captain Christy, La France, Magna Charta, Souv. de la Malmaison, Ulrich Brunner, etc.	4.00 40.00
Mme. Plantier, Jules Margotin, etc.	3.50 35.00
Gloire de Polyantha, Jeanne Brivon, etc.	4.50 45.00
Mme. Pierre Guillot, Ernest Metz, etc.	12.00 120.00
Mme. Georges Brant, Mary Wilson, Meteor, Beaute de Europe, Duchesse de Braganca, Mme. Etienne	
Mme. Hoste, Pans Gontier, Lacombe, etc.	6.50 65.00
Amelopes Veitchii, 1 year transplanted	5.00
per 5,000 or 10,000	4.00
Clematis Viticella, 2 yrs. transpl.	4.50
per 5,000 or 10,000	4.00
Clematis Vitalba, 1 year transpl.	1.50
per 5,000 or 10,000	1.50
Lonicera reticulata aurea, 2 yrs. transpl.	6.50
Deutzia gracilis, 2 yrs. transpl.	4.50
per 5,000 or 10,000	3.50
Lilacs Charles X. pot grown for forcing, 250 00 per 100	extra \$25.00 per 100

Nursery stock of all descriptions at very moderate prices. Cash with order from unknown correspondents. For particulars apply to

E. BENARD, Jr.,
SAN DIEGO, CAL.

or to **C. RAOUX,**
296 Pearl St., N. Y.

HARRIS and Calla Bulbs,
At reduced rates, write for prices.
THE WISCONSIN FLOWER EXCHANGE,
133 Mason Street, MILWAUKEE, WIS.

HYDRANGEA GRANDIFLORA.

We ask the attention of Dealers and the Trade to our Large Stock of **HYDRANGEA GRANDIFLORA**, nice, well-grown plants at very low prices, viz:

HYDRANGEA GRANDIFLORA, 2 year, 2 to 2½ feet, strong. Price, \$7.00 per hundred; \$60.00 per thousand.

HYDRANGEA GRANDIFLORA, 2 year, second size, 18 to 24-in., good. Price, \$6.00 per hundred; \$50.00 per thousand.

Samples on application. Correspondence solicited.

Address **THE DINGEE & CONARD CO., WEST GROVE, PA.**

We can now furnish in any quantity desired Debit and Credit Tickets of which we give below samples reduced one-half in size.

DEBIT. <i>Jan 10 1889</i>		
<i>John Smith</i>		
100	<i>Viburnum</i>	3 -
50	<i>Yucca</i>	4 -
		7 -

CREDIT. <i>Jan 10 1889</i>		
<i>Richard Roe</i>		
500	<i>4 inch pots</i>	5 -
175	<i>3 1/2 "</i>	5 -
		10 -

The debits are printed in black and the credits in red, so they can be readily distinguished. They are put up in blocks of 100; 50 of each, placed back to back; thus but one block will have to be carried. By means of these tickets an entry of a sale or receipt of goods can be made anywhere—in the house or in the field—and afterwards filed. Tickets for each transaction in your business will make data from which a book-keeper can readily work. With this simple and easy means of keeping a record of your business can you afford to neglect so important a matter?

Price of Tickets, postpaid, 100, 20c.; 200, 35c.; 300, 50c.; 500, 75c.; 1000, \$1.40.

AMERICAN FLORIST CO.,

32 La Salle Street, CHICAGO

SEATTLE, WASH.—Nearly all the florists of this city are putting up new houses. Meany & Ward are putting up three 60x11 feet each. The Seattle Floral Co. is erecting one large house adjoining the one they already had on the corner of Second and Cedar streets. Mr. C. W. Lawton, the pioneer florist of this city, is putting up a fine new house with deep and heavy brick foundation, the only one in Seattle with such a foundation. Mr. Hoffmeister, of the Washington Floral Co., is putting up a new rose house. He is going to heat with steam, because he will need steam power to pump water into the tank he is erecting. He expects to have an independent water system of his own. Mr. Lawton will use hot water in his new house. The Seattle Floral Company will use steam, and Meany & Ward are putting in flues. Louis Ziegler, formerly head gardener for E. F. Witter, has leased the greenhouse belonging to W. H. Davis, proprietor of the Cloverdale Nursery, and will hereafter conduct it.

LONDON, CAN.—The Western Fair for 1890 will be held in this city September 18 to 27. In the horticultural department prizes are offered for plants in pots to the amount of \$260, and for cut flowers and floral arrangements to the amount of \$206, a total of 466 for plants and flowers. But the prizes are cut up into rather small amounts by the large number of items.

KENOSHA, WIS.—Lewis Turner has built a new house 100x14.

Geo. Jackman & Son

Begin to offer a large and well grown

Stock of the following:

ROSES—In choice and exhibition varieties.

RHODODENDRONS—Of the best named sorts, and

Hybrid Seedlings well set with buds.

AZALEAS—Good named sorts, also Mollis and Ponicum set with buds.

CONIFERS—In large collection.

SHRUBS—Ornamental and Flowering.

FOREST TREES—Of sorts, all grown by thousands.

CLIMBERS—In variety, including their celebrated

Clematis.

STOCKS—Fruit and Manetti, fine.

Catalogues free on application.

TERMS—Cash with order, or satisfactory trade reference from unknown correspondents.

WOKING NURSERY,

WOKING, ENGLAND.

Field Grown Carnations.

Ready Sept. 1st.

Field Grown Stevias.

Field Grown Chrysanthemums.

Pot Grown Chrysanthemums.

Fine lot of M. Neil Roses.

Ready now.

WRITE FOR PRICES TO

PROBST BROS. FLORAL CO.

1017 Broadway, KANSAS CITY, MO.

FOR SALE.

Good Stock Healthy VIOLETS MARIE LOUISE and SWANLEY WHITE. Doze. The above clumps \$1.00 per 100
Plants transplanted 2 25
Runners 1 00

Use percent off on 500 plant orders. Cash must accompany orders from unknown parties.

M. TRITSCHLER,
NASHVILLE, TENN.

FIELD GROWN CARNATIONS.

Plants grown specially for Winter Blooming, strong and healthy, medium size.

BUTTERCUP, at \$10 and \$12.50 per 100, as to size.

CHRISTMAS and DAWN, at \$15 per 100.

GOLDEN GATE, a limited number of strong, field grown plants of this splendid pure yellow, at 75 cents each.

J. R. FREEMAN, a new cardinal colored; and CHASTITY, a new rosy pink colored; fine plants, at \$25 per 100.

OLD STANDARD SORTS, in assortment, at \$8 per 100.

CHAS. T. STARR, AVONDALE, Chester Co., PA.

CARNATIONS.

10,000 FIELD GROWN, READY IN SEPT.

MRS. FISHER, SNOWDON.

GRACE WILDER, VICTOR.

ALEGATIERE, FLORENCE.

HINZE'S WHITE, ANNA WEBB.

Also field grown CHRYSANTHEMUMS.

Will make Contracts Now.

R. T. LOMBARD, WAYLAND, MASS.

CARNATIONS.

Grace Wilder, White Grace Wilder, Florence, Etc. Also Bouvardias, strong ground plants, healthy stock, ready Sept. 1st. Send your order early.

PRIMROSES out of 2 1/2-in. pots, \$4 per 100

SMILAX out of 3-inch pots, \$5 per 100

WM. A. BOCK, North Cambridge, Mass.

LIZZIE MCGOWAN

ORANGE, N. J., Feb. 1st 1890.

This is to certify that I have this day sold to H. E. CHITTY, of Paterson, one-half of the stock of my new White Carnation Lizzie McGowan.

JOHN MCGOWAN.

TIDAL WAVE.

A few hundred fine field grown plants of

this magnificent Carnation for sale.

H. E. CHITTY,

PATERSON, N. J.

CARNATIONS.

Field grown plants, ready in September and October. Also

VIOLETS.

Large clumps for forcing of MARIE

LOUISE and SWANLEY WHITE.

Send for circular.

W. E. SHELMIER, Avondale, Pa.

ROSES.

Perles, Mermel, Cook, Sony d'un Ami, Brides, Jacques, and Bon Silene, strong plants, 5-in. pots \$ 8 00 \$70 00
Sony de Woodton, 5-in. pots 12 00
Smilax, strong plants 3 00 25 00
Amelopsis Vetchli, strong plants 8 00 20 00
Rex Begonias, fine varieties, 4-in. pots 8 00 75 00

CARNATIONS.

Hinze's White, Edwardsli, Peerless, Fred Johnson, Orient, Grace Wilder, Century, Alegatier, Florence, strong field grown plants, 1st size 8 00 70 00
2nd size 5 00 50 00

VIOLETS, Swanley White, strong clumps 6 00

WOOD BROTHERS,

(SUCCESSORS TO I. C. WOOD & BRO.) FISHKILL, N. Y.

SURPLUS STOCK.

We have a fine lot of Roses for immediate planting; fine and healthy plants, such as Perles, Mermels, Jacques, and Bon Silene, 5-in. pots, \$8.00 per 100. Also 3,000 Hydrangeas, Ottaka, Thos. Hugh, Raven and White Fringed, extra strong, 4-in. and 5-in. pots, \$2.00, \$3.00 and \$4.00 per 100. Orders booked now for choice, fine, healthy, field grown Carnations. All the leading sorts, also Violets, Marie Louise and Swanley White. Write for prices by the 100 or 1000.

PAUL BUTZ & SON, New Castle, Pa.

FIELD GROWN CARNATIONS

FINE, HEALTHY STOCK OF

Silver Spray, L. L. Lamborn,

Grace Wilder, Florence,

Portia, Mrs. Garfield,

and many other varieties.

READY IN SEPTEMBER, AND VERY CHEAP.

Send for Price List, and

ORDER EARLY.

GEO. HANCOCK,

GRAND HAVEN, MICH.

Mention American Florist.

CARNATIONS.

HINZE'S WHITE, GRACE WILDER, PORTIA, LAMBORN, TIDAL WAVE, and other new and old varieties.

MARIE LOUISE VIOLETS.

PANSY PLANTS OF THE JENNINGS STRAIN.

for Winter and Spring blooming.

Send for price list.

E. B. JENNINGS, box 70, Southport, Conn.,

CARNATION, PANSY AND VIOLET GROWER.

HULSEBOSCH BROS.,

—GROWERS OF—

DUTCH BULBS, FLOWER ROOTS & PLANTS

OVERVEEN, near Haarlem, HOLLAND.

Offer to the Trade as usual all kinds of the best

Hyacinths, Tulips, Crocus, Lilies

Narcissus, Roses, Azaleas,

Rhododendrons, &c., &c.

Catalogues free on application to

A. HULSEBOSCH,

O. Box 3118.

NEW YORK CITY.

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NAR-

CISSUS, SPIRÆA, LILIES

OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale

Importers should write us for prices.

Our new Bulb Catalogue is now ready.

Will be mailed free on application.

JULIUS HANSEN,

PINNEBERG, GERMANY.

Recommends his

LILY OF THE VALLEY.

very strong pips, largest cultivators of North Germany.

PER 1000 PIPS, \$35.

Brange Silver Medal, Berlin, 1889.

Brange Medal, Hamburg, 1889.

Mention American Florist.

MARYSVILLE, MO.—M. E. Mergan is building a new greenhouse 60 x 16.

INDEPENDENCE, MO.—N. S. Griffith has added to his plant this summer, one new erection house and one propagating house.

DETROIT, MICH.—A chrysanthemum show will be given in this city November 4 to 7, under the auspices of the Detroit florists.

CHICAGO.—The store opened at 31 Washington St. by Geo. Kichm is merely a branch. He still retains the store on State St.

MEXICO, MO.—Joseph Gelven, formerly of Tipton, Mo., has bought a place here and will conduct the business of florist and gardener.

PATERSON, N. J.—H. E. Chitty has just completed a new house 18x120 feet, built after the Hittings plan with iron rafters, purlins, brackets and trusses. It will be used expressly for the culture of the new white carnation Lizzie McGowan.

HARTFORD, CONN.—The September exhibition of the Hartford County Hort. Society will be held the 9th to 11th insts., inclusive, and the annual chrysanthemum exhibition November 12 to 14 inclusive. Schedules for both exhibitions may be had on application to C. H. Pember, secretary, Hartford, Conn.

Palms and Dracenas.

LATANIA BORBONICA, 3-in. pots, strong, 15c. each.
CHAMEROPS EXCELSA, 3-in. pots, strong plants, 125c.; 2-in. pots, small, 6c.

CORYPHA AUSTRALIS, 2-inch pots, 8c.
WASHINGTONIA ROBUSTA, 4-inch pots, 25c.; 3-inch pots 15c. 10 to 15 other varieties in 5 to 10 and 12-in. pots, some good specimens at low down prices. Over 100 **CYCAS REVOLUTA**, from \$1.00 to \$8.00 and \$12.00, according to size.

DRACAENA TERMINALIS, 5-in. pots, strong plants, 40c.; 4-in. pots 20c.; 3-in. pots 12c.; 2½-in. 6c.

DRACAENA INDIVISA, 5-in. pots, strong plants 35c.; 4-in. pots 20c.; 3-in. 12c.; 2-in. 55c. per 100.

Send me your order, I feel sure I can give satisfaction.

W. J. HESSER,
PLATTSMOUTH NEB.

Choice Stock Cheap.

Dracena Indivisa, 4-inch..... Per 100 \$10.00
Ampelopsis Veitchii, 3-inch..... 3 00
Latania Borbonica, 3-in, 1 year..... 8 00
Aspidistra Variegata, 5 inch..... \$9 per doz.
Pandanus Veitchii, 4-inch..... \$12 per doz.

ROSES from OPEN GROUND, Deliver in Dec.
Jacqueminot..... Per 1000 \$70.00
Hermosa..... 60.00
Agrippina..... 60.00

J. H. CAMPBELL & SONS,
3601 Germantown Ave., PHILADELPHIA, PA.

FERNS.

A. Cuneatum, fine plants for shifting.
ROSES, 3 inch, for immediate bedding, at usual prices. SEND FOR LIST.

M. A. HUNT,
TERRE HAUTE, IND.

A. LIETZE,

P. O. Box 644 RIO DE JANEIRO.
PALM SEEDS, ORCHIDS,
NEW CALADIUMS.

For price list apply to

Messrs. ADOLPH V. ESSEN & CO.,
Gr. Reichenstrasse, 73, Hamburg, Germany.

ORCHIDS AND PALMS SPECIALTIES.

The stock is of such magnitude that without seeing it it is not easy to form an adequate conception of its unprecedented extent.

FRUIT TREES, ROSES, AZALEAS, CAMELLIAS, Bouvardias, Cyclamens, Ericas, Epacris, Solanums, Tree Carnations, and other WINTER AND SPRING BLOOMING PLANTS, of fine quality and immense numbers. INSPECTION INVITED.

THE GLASS COVERS AN AREA OF UPWARDS OF 315,000 SUPER. FEET.

MR. EDWARD V. LOW hopes to arrive in the United States about first week in September, and will remain for six or eight weeks, when he will have much pleasure in calling upon intending purchasers, or answer communications addressed to him at HOFFMAN HOUSE, NEW YORK CITY.

HUGH LOW & CO.,
CLAPTON NURSERY, LONDON, and BUSH HILL PARK, ENFIELD, ENGLAND.

CHARLES D. BALL,
HOLMESBURG, PHILADELPHIA, PA.,
PALMS, FERNS AND DECORATIVE PLANTS.

My establishment is devoted exclusively to the culture of such plants. The stock is one of the largest, and CANNOT BE EXCELLED IN QUALITY. Prices always moderate.

TRADE LIST ON APPLICATION.

ORCHIDS! ORCHIDS!
Many additions of Choice New varieties this season.

Send for New Catalogue.

WM. MATHEWS,

UTICA, N. Y.

CUT BLOOMS AT ALL SEASONS.

ORCHIDS! ORCHIDS!
Lowest Prices Ever Offered.

Send for special prices of **SURPLUS STOCK** which must be sold now.

Established 1854. **BRACKENRIDGE & CO.,**
Govanstown, (Baltimore), Md.

PRIVATE COLLECTION OF ORCHIDS
FOR SALE.

All Standard Varieties. Many Rare Plants.

The above collection of the late **GENERAL L. PERRINE** of Trenton, N. J. will be sold in its entirety to close his estate. Apply to
LEWIS PERRINE, Jr., Atty., Trenton, N. J.

FARLEYENSE

in 2½-inch, ready to shift into 4 inch.
\$25.00.....per 100.
\$200.00.....per 1000.

FISHER BROS. & CO.,
MONTVALE, MASS.

JAPANESE PLANTS,
Trees, Shrubs, Bulbs, Seeds, Etc.,
offered at low prices by

FELIX GONZALEZ & CO.
Direct Importers and Exporters,
303 to 312 Wayne and Crescent Aves.,
SAN FRANCISCO, CAL.

Wholesale Catalogue mailed free on application.

BEGONIA—TUBEROUS ROOTED.

HYBRIDA GIGANTEA ERECTA AND ROBUSTA PERFECTA, NEW!!

Pot in Aug. and Sept. and they will bloom in greenhouse from Oct. to March. The following shades: dark red, crimson, scarlet, rose, pink, orange, yellow, white with rose, pure white, best cut flower.

Each color, per 100, \$2.00.
Above varieties per 100 \$1.50, per 1000 \$10.
Dracena Indivisa, 2-in. pots, per 100 \$5; postpaid.

C. M. HILDESCHIEIM, FLORIST,
BALTIMORE, MD.

THE SEVEN OAKS NURSERIES.

NEW CROP
PALM AND PANDANUS SEEDS.

We have just received a large invoice of the following, which we can offer at 20 per cent below the usual prices:

Latania Borbonica, 65c. per lb.; \$55 per 100 lbs.
Thrinax elegans, \$5 per Thousand Seeds.
" **argentea**, \$3 per
" **parviflora**, \$2.25
Livistona oliviformis, 10 seeds, 75c.; 100 \$6.
Pandanus utilis, 100 seeds, 85c.; 1000 \$7.50.

20,000 feet of sound **Dracena canes**; **Fraxinus**, **Terminalis**, and **Perrier**. State quantity wanted, and price will be given on application.

R. D. HOYT,
BAY VIEW, FLORIDA.
Mention American Florist.

PALMS.

LATANIA,

KENTIA,

ARECA.

Apply to **EDWIN LONSDALE,**
WYNDMOOR, CHESTNUT HILL,
PHILADELPHIA, PA.
Mention American Florist

FERNS. PALMS.
40,000

Fern Seedlings, in the following varieties, at \$5.00 per 100, from 2½-inch pots.

ADIANTUM **PTERIS TREMULA**
" **C. ROENBECKII**, " **SERRULATA** var.
" **GRACILLIMUM**, Per doz. Per 100

LATANIA BORBONICA, 4-inch pots, \$3.00 \$25.00
" " 3-inch pots, 1.50 15.00
" " 6-inch pots, 10.00
PANDANUS UTILIS, 6-inch pots, 9.00

Also a large stock of **MUSA SUMATRANA**, the best of all var. Bananas, \$1.00 each; \$20.00 per 100. Address

GEO. WITTBOLD,
School & Halsted Sts., LAKE VIEW, CHICAGO.

CYPRIPEDIUM INSIGNE.
Nice plants at \$12.00 per hundred; \$2.00 per dozen.

ALSO A FEW
EUCHARIAS AMAZONICA
left, at \$5.00 per hundred.
GEORGE SALTFOED, Rhinebeck, N. Y.

ORIGINAL AND LARGEST GROWERS OF
LILIUM HARRISII, BETTER KNOWN AS **THE BERMUDA EASTER LILY**.

BULBS NOW READY FOR DELIVERY.
 THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 120 in length, of a crop of *Liliium Harrisii* in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "*Bermuda Easter Lily*"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fills in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his own use. We hear it said occasionally that *Liliium Harrisii* flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

→ HALF A MILLION BULBS. ←

Be sure you get the genuine *Liliium Harrisii*. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant *L. longiflorum* in Bermuda, planting it with *Harrisii* to increase their stock rapidly when *Harrisii* was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand; "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Foreign Notes.

AN ENGLISH National Orchid Society is being haiked of.

BEGONIA HAAGEANA or Schirffi is meeting with favor in England.

ROSE SHOWS were held at 38 different points in England during June and July.

A PROJECT is on foot in England to erect a memorial to the late B. S. Williams.

AN ORCHID journal will soon be published at Rio de Janeiro, in both Latin and Portuguese.

EARLY IN JUNE a rose show was held at Vienna at which about 100,000 cut blooms were shown.

THERE is a society of Florists in York, England, which has had an unbroken existence of over 100 years.

THE SUM of \$500,000 is annually expended for the maintenance and improvement of the parks of London.

ROSE LA FRANCE DE 1889 is said to approach Paul Neyron in size, but is more beautiful. Its color is rose magenta.

PELAGORUM Gloire du Plessis, sent out this year, is claimed to be a decided improvement on Souvenir de Mirande.

MR. JOHN STEWART, for twenty-five years secretary of the Royal Caledonian Horticultural Society died recently, aged 76.

THE PARKS and open spaces of London under municipal control have increased during the past twenty years from 178 acres to over 3,000 acres.

THERE was a beautiful exhibition of ferns at Chiswick July 22 and 23, on the occasion of the Fern Conference at which several valuable essays upon ferns were read.

THERE was a very fine display of flowers at the exhibition of the National Carnation and Picotee Society of England, in spite of the fact that the season has been very unfavorable.

THE PROVINCIAL show of the National Rose Society of England held at Birmingham, July 17, was the best ever given by the society, both as regards quantity and quality of blooms displayed.

ENGLISH GARDENERS are having the same trouble with *Primula obconica* that we have had here. Reports of poisoning from this plant are now frequent in English horticultural periodicals.

AN ENGLISH gardener who was discharged by his employer without notice, sued him for a week's wages in lieu of a week's notice, and he was non-suited by the judge. A discussion is now going on as to the justice or injustice of this ruling.

OUR ENGLISH cousins are strong on societies. They have their Rose Society, Chrysanthemum Society, Dahlia Society, Carnation and Picotee Society, Primula and Auricula Society, and in fact a society to look after the interests of nearly every one of the popular flowers.

SUGAR MAPLES.

The Finest of Shade Trees. Order now for Full Delivery. Per 100

15 to 24 in. plants..... \$85.00
25 to 30 in. plants..... 90.00

MAGNOLIA TRIPETALA, Per 100
2 to 3 feet, beautiful stock..... \$20.00
4 to 5 feet..... 25.00

Subst list of wants for other sizes and varieties for low rates, packed f. o. d. cars.

W. W. HENDRIX, Bowling Green, Ky.

CHINESE PRIMROSES

Plants from 2½-inch pots; leading varieties; all fringed; large flowers; bright colors.
Price, per hundred \$2.50; per thousand \$20.00.

Address HENRY S. RUFF & SONS,
SHIREMANSTOWN, PA.

PANSIES.

A FEW POINTS TO CONSIDER.

QUALITY the important feature in pansies is well taken care of in my strain; in fact so well that many of my customers say there are no better ones. Those who bought a few hundred on trial last season are placing their orders now for a fully supply.

THE PLANTS are nice stocky seedlings that can be mailed or expressed safely long distances and at a moderate cost. Samples will be mailed for 10 cts.

QUANTITY I can furnish them in any number, 100 or 10,000, all from the same beds and same seed. A trial order is respectfully solicited.

PRICE Free by mail 100, 75 cts.; 500, \$3; by express 500, \$2 50; 1000, \$5; 2500 and upward to per cent discount.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

ZIRNGIEBEL'S
NEW GIANT MARKET AND FANCY
PANSIES

Have been exhibited everywhere and admitted to be the finest strains at the present time.

"Huge jewels of velvet and gold."—Boston Transcript, May 10th, 1890.

Trade packages of 1,500 and 500 seeds respectively, at \$1.00 each. Full printed directions for the proper cultivation of these pansies with each package of seeds.

IN ANSWER TO MANY INQUIRIES:

We have no seed of Giant Fancy Pansies to sell by weight, being too scarce and high. We renew our stock every season, from seed obtained direct from Messrs. Bugnot and Cassier, at the rate of thirty and twenty dollars per ounce respectively with a limited supply, as we consider their seed to be the cheapest, quality considered. We do not handle any other.

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.

Mention American Florist.

PANSIES ONLY
ONLY

The grandest Collection ever offered, including all the latest Novelties. Our seeds are warranted to be fresh, pure, and strictly first-class in every respect. Send for new Circular and Price List to the Trade.

ALBERT BENZ, DOUGLASTON, N. Y.

ROEMER'S SUPERB PRIZE PANSIES.
The Finest Strain of Pansies in the World.
Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

Pansy Seed

of the best quality, in the 2½ best exhibition varieties, offered at very moderate prices.

Henry Mette,
Seed Grower and Merchant,
QUEDLINBURG, GERMANY



TRY DREER'S
GARDEN SEEDS

Plants, Bulbs, and Rootstocks. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free on request.

HENRY A. DREER,
Philadelphia

SMILAX

AT ALL TIMES READY FOR CUTTING

Buyers would do well to visit my place and examine stock during CONVENTION WEEK.

C. THOMPSON ADAMS, West Medway, Mass.

MAMMOTH PANSIES

From finest strains of the most celebrated growers of Europe and America.

GIANT TRIMARDEAU, LORD BEACONSFIELD, EMPEROR WILLIAM and others mixed.

Price, \$8.00 per 100. Very fine mixed, \$5.00 per 1000.

Address J. G. Burrow,
FISHKILL, N. Y.

CHOICE PANSY SEED.

MAMMOTH SUNBEAM STRAIN.
One of the best and most perfect strains of Mammoth Pansies yet produced; very large, of fine form and showy colors. One of the choicest collections in cultivation. Be sure to sow some of this seed.
Per liberal trade pkg. 25c.; 3 pkts. 60c.; 6 pkts. \$1.00.
JOHN F. RUFF, Shiremanstown, Pa.

NEW SEEDLING CHRYSANTHEMUM

"ORANGE BEAUTY."

This novelty has been in bloom with us last year from September until June and is now in full bloom. We can supply fine plants in 1½ inch pots at \$1.50 per 10 plants, or \$16 per 100. Also a large stock of Grand Duke Jasmine, 2½ inch pots, \$5.00 and 2½ inch pots, \$7.00 per 100. Jasmine multiflorum 7½ in. pots, \$1.50 per 10; 2½ inch pots, \$3.00 and 2½ inch pots, \$4.50 per 100. Allamanda Hendersonii from 2½ in. pots at \$7.00 per 10; 5 inch pots, \$10.00; 8 inch pots, \$14.00 per dozen, or \$20.00 per 100.
Per mail cash with order or satisfactory reference.

FRANCIS MORAT'S SONS & CO.,

LOUISVILLE, KY.

Mention American Florist

FLORISTS' WAIT
NURSEYRMAN
AND SEEDMEN

WIND MILLS
THE HALLADAY MILL
It is acknowledged the standard Wind Mill of the World. It is made in 10 sizes, 8 to 60 ft. diameter, 1 man to 10 horse power. It is adapted to pumping water for stock and dairy farms, agricultural and Village Water Supply and Fire Protection, Railway Water Stations, Irrigation, Irrigator, Etc.
THE HALLADAY is made upon liberal and guaranteed terms. The most powerful, durable and best regulated and regulated Wind Mill on the market.

U. S. SOLID WHEEL
AND STANDARD
VANELESS
WIND MILLS

These Mills are guaranteed the BEST of their class. Are not made cheaply, but heavy and strong in construction. They are rapidly taking the lead of all other Vanes and Vaneless Mills on the market.

PUMPS
We make a complete line of WIND MILL HAND OPERATED POWER PUMPS, Iron, Brass and Brass-lined CYLINDERS, Our 3 Way Force Pumps have no equal.

TANKS
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THE RURAL PUBLISHING CO., Times Building, NEW YORK.

S. A. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

Many of our friends agreeing with us that the award on Standard Pots at our late Exhibition was an unjust one, we shall use the advertising columns of the AMERICAN FLORIST to state our side of the question.

We asked the Executive Committee to give us an impartial committee of award. The following propositions should convince anyone whether **WE FEEL** that we have had such a Committee.

The following is the text of the matter in question, taken from the official programme:

"Manufacturers of FLOWER POTS are notified that a Certificate of highest merit will be awarded to that display of Pots shown at this exhibition, which most nearly approaches the S standard. Such displays shall consist of not less than one dozen of each size, made from working molds and not turned down."

One member of the Committee of Award said that we were not entitled to any award because we exhibited but fifteen sizes, while others exhibited seventeen, and that seventeen cuts were represented on a white sheet of Standard Pots. We fail to see that the award was offered for any specific number of sizes, but that twelve of each size should be presented. **A MUCH MORE IMPORTANT PART OF THE COMMITTEE'S ANNOUNCEMENT** was that the pots should be **MADE FROM WORKING MOLDS AND NOT TURNED DOWN.** We do not hesitate to make this public statement that the Flower Pots to which was awarded the Certificate of highest merit were **VERY MANY** of them **EITHER GROUND, FILED, TURNED or SAND-PAPERED** to size, and for that reason alone were not entitled even to a measurement by the Committee of Award.

WE WISH TO MAKE TWO PROPOSITIONS.

First. We will put up **\$1,000 in Cash** and submit the same pots exhibited at the late Exhibition against the pots exhibited by our competitor, and leave it to an impartial committee of three, and if our pots do not come the nearest to the requirements, we will present the \$1,000 to the fund of the Society of American Florists.

Second. We will put up **\$2,000 in Cash** and produce 500 pots of each size from 1½-inch to 7-inch inclusive, and 250 pots each from 8-inch to 12 inch inclusive, making 7,250 pieces, made from the same molds in which the pots we exhibited were made, and all shall be of the proper thickness in all respects, against an equal number of pots made from the same moulds that produced the pots receiving the award, and if an impartial committee do not give us the award we will present the money and the pots to the Society of American Florists for an experiment station. And if we are allowed to choose one of the committee of three, we will select our honorable Treasurer Mr. M. A. Hunt, of Terre Haute, Ind.

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H. C.—Without knowing the condition of the plant and the precise cultural conditions under which it is grown we are unable to say what is the matter with this particular specimen. Constance Elliott, as a rule, blooms freely enough. Vigorous young plants do not bloom as freely as do those of restricted growth, or old plants. For instance, pot bound plants after being planted outdoors soon come into bloom and flower freely till they begin to grow rankly, then they stop blooming till towards fall when they begin again. Old plants wintered in pots and in a frame or greenhouse and planted out in spring act in the same way. But plants that have lived outside over winter make a rapid and full growth as a rule before they display any effort to bloom, and they seldom begin flowering before midsummer, often not so soon.

THERE is probably no more popular hardy shrub to-day than Hydrangea grandiflora, and until recently the supply has nearly always been unequal to the demand. But the large stock of well grown plants to be seen in the nurseries of the Dingle & Conard Co. at West Grove, Pa., would indicate that for the present the shortage, if any, will not be nearly as great as in the past.

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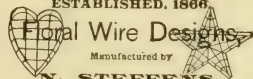
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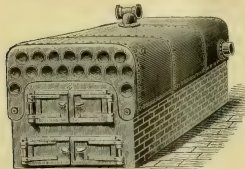
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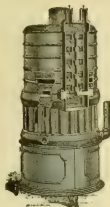
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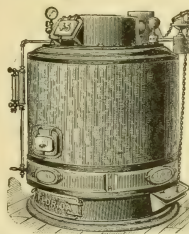
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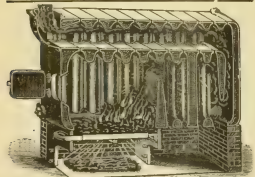
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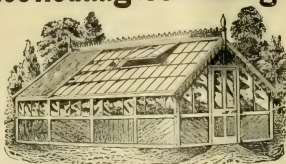
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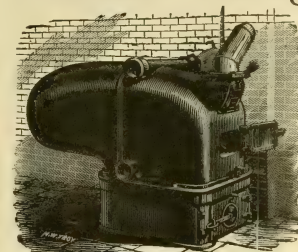
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THE AMERICAN FLORIST



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Vol. VI. CHICAGO AND NEW YORK, SEPTEMBER 15, 1890.

No. 123.

THE AMERICAN FLORIST

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LOOK OUT FOR FROST.

MR. MAY also sends a note of the same tenor as that received earlier from Mr. Craig, and which we print elsewhere.

CONSIDERING the many difficulties encountered in securing a clear, sharp photograph of a large group of people, the one we reproduce on another page is certainly most excellent.

IF THE PRESSMAN does his full duty the portrait of President M. H. Norton, which appears on another page, will be the best portrait we have ever published. The engraver's proof shows a beautiful piece of work.

Sober Thoughts After Boston.

The convention is past and gone. The gathering was such as might reasonably be expected, but it was plainly seen that so great were the attractions outside of the convention proper that the meetings with one exception were not as fully attended, neither were the papers discussed as at previous conventions.

Papers and essays to be of value in discussions should be pert, crisp and short. There are papers, like Mr. Dean's, that could not be discussed, from the fact that there was nothing left unsaid. The executive committee will do well to consider how to get only good essays and papers.

The committee on nomenclature made an excellent report as far as their material would allow. It is pleasing to note that the so-called fraudulent substitutions are not nearly as numerous as reported. In fact the cry of wolf came from the rustling of the leaves by a very small mouse in nine cases out of ten.

The exhibition of the Mass. Hort. Society with its magnificent array of glorious plants, its grand display of water lilies and other aquatics, the elegant table and mantel decorations, was worth to every visitor all the years waiting, all the money it cost and the time devoted, if there had not been even so much as a meeting in convention or a paper read.

Some members thought that the attendance at the sessions ought to have been much larger. Where was the most information to be found? To a few in the convention, to many in the exhibition. As yet the society has no mortgage on its member's locomotion—and it never will have.

Then somebody says the society ought to do this and do that; very often these somebody sit on the fence and bark instead of coming into the ring to wrestle with the wrongs. No, the Society of American Florists isn't perfect, it doesn't want to be, and it never will be, as it hopes always to have some work to do.

That old ghost of ours will not down, and it seems to me he will never be laid; at least I hope not. Just think what he did and how he appeared. First at Mr. Hews of Cambridge; second, Mrs. Hayes of Lexington; third, Mr. Hunnewell's, Wellesley; fourth, on Nantasket Beach. Isn't it dreadful.

But what delightful remembrances many have of the week at Boston, and they will be fresh at Toronto next year.

JOHN THORPE.

Floral Arrangements.

The dinner table decorations at Boston were a pretty pointed illustration of the fact that it was a dinner table decorated with flowers and not a decoration of flowers upon a table that the society

wished to encourage. The floral decorations should never interfere with the usefulness of the table as a dinner table for this is its primary object, and the decorations of plants and flowers upon the table should never be so heavy as to preclude from one another the full view of guests sitting opposite each other.

Another point taught us at Boston was that vases, clocks or other stiff figures made of flowers are not in favor. Even the poor negro minstrel with his banjo, all so life-like and painstakingly built of blossoms was considered unfit company for aesthetic Boston, and after the second day like a drunken piper he was removed from public view and shut up in a back room.

The mantel decorations were also an impressive lesson. No tyro could fail to appreciate the superiority of the fine material, studied plans, careful workmanship and elegant arrangement of the first prize mantel. Furthermore it was a lesson to some of us that there is room in the florists' business for several other kinds of flowers besides roses and carnations, not one of which was employed in this decoration. Our business has got to widen out. The lovely lapagerias never before appealed more eloquently for public favor; they were presented to us in their spotless beauty and appropriate usefulness. Orchids tell in all fine work. And Pandanus Veitchii and Cocos Weddelliana made one of the brightest marks of their existence. And in this decoration two plants in particular, namely, the white-flowered agapanthus and Alocasia macrorrhiza variegata were used with telling effect. The white blossoms brightened up the sombreness of the ferns and so too had the white variegated leaves of the alocasia a cheerful bearing. And Mr. Allan tells me this agapanthus is as easily grown as the blue-flowered one, and too that it comes true and readily from seed.

W. F.

Boston Notes.

The annual meeting of the Gardeners and Florists' Club was held at Horticultural Hall on Tuesday, September 2. The following officers were elected to serve for the ensuing year. President, Lucius H. Foster; Vice-President, Jackson Dawson; Secretary, J. J. Cunningham; Financial Secretary, W. H. Elliott; Treasurer, P. Welch.

The general committee of fifty which has had in charge all arrangements for the S. A. F. convention made a final report which was accepted with thanks.

On September 1 occurred the annual entertainment provided by Mr. Ed. Hatch for a few of his friends at his cottage on Scituate Beach. The invitations announced that the object of the meeting was "the best method of disposing of clams." The subject received due attention.

At the weekly show at Horticultural Hall on August 30 Mr. T. Rowland showed a specially fine collection of cut blooms of tuberous begonias.

One of the most interesting plants shown on Saturday September 16 was a seedling *exepidulum* raised by Fitcher & Manda. It is a hybrid between *C. Veitchianum* and *C. concolor*. It is stated that this is the first distinct hybrid *exepidulum* raised and flowered in America. It has been named *Arnoldianum* in honor of Mr. Hicks Arnold, of New York, into whose hands it has passed to become a part of his already large collection of rare *exepidiums*. A silver medal was awarded to it by the Mass. Hort. Society.

It is to be regretted that in the account published in the preceding number of the *Florist* describing the visit of the S. A. F. to Lexington the elegant spread provided for the visitors should have been located in "the yard." Those who were so fortunate as to participate in that pleasant entertainment will remember the beautiful shady grove where the tent was spread as being not exactly a yard, and the magnificent estate over which Mr. Comley presides as head gardener, with its hundreds of acres of lawn and woodland, will not be soon forgotten by those who were there. W. J. S.

The Award on Pots at Boston.

ED. AM. FLORIST.—In the last number (September 1) of the *Am. Florist* I notice in the advertisement of A. H. Hews & Co. a statement that the committee on Standard Pots were not impartial in their award. It is due to that committee to say that each member is regarded by the trade generally as being both competent and honest, and I know that in this instance they discharged their duties with painstaking carefulness. It will be difficult to get judges to serve in the future if such attacks on their character are permitted to go unrebuked. ROBT. CRAIG, Philadelphia, September 8, 1890.

M. H. Norton.

Mr. Michael H. Norton the newly elected President of the Society of American Florists, was born in Roxbury, Mass. which is now a part of the city of Boston, and has always lived in Roxbury or Dorchester, hence is a Boston boy. He obtained his education in the Boston schools and when quite a young man served two years on the Cushing estate at Belmont under that famous old Boston gardener C. M. Atkinson. After leaving Mr. Atkinson's wing, he, together with his brother Mr. Patrick Norton started in business in Dorchester under the name of Norton Bros. Their first venture was in growing vegetables for the Boston market, the whole outfit at the beginning being three hotel sash. The following season they erected greenhouses and began the cultivation of bedding plants and violets, the latter being quite a venture at that time. One of their first and best advisers was the late Peter Henderson, and that his advice was sound is demonstrated by the abundant success of the young firm from the very start. It was not long before the Bon Silene, known then as the "Boston Rose," claimed their attention, and for some years they were the largest growers of that most popular bud, their whole cut being taken for some years by New York firms. Some fifteen years ago Norton Bros. opened in the city a retail flower store, and there the subject of our sketch has presided ever since, while his brother has attended to

the greenhouse department. They do a prosperous business and enjoy a reputation in the trade excelled by none. But beyond this Mr. Norton is esteemed by his acquaintances and friends for his genial manner and whole-souled hospitality. He is a man whose friendship is highly esteemed, his advice is always sound, whose company is a perpetual sunshine and whose popularity among his acquaintances is probably unequalled by that of any man in the society to-day.

Mr. Norton is a past president of the Gardeners' and Florists' Club of Boston, also a member of the flower committee of the Mass. Hort. Society. He is 48 years of age.



The season has now arrived when all roses that are expected to produce flowers for the coming winter should be planted without delay. In doing so good strong vigorous plants only should be used; otherwise it will be only loss of time and trouble to plant at this late season, but if good strong plants from not less than 4-inch pots are chosen and planted in shallow benches of not over 3½ inches of soil (3 inches would be better) and treated reasonably well, they will produce a good crop of flowers by Christmas, and continue bearing well for the rest of the season; and where flowers are wanted as late as July next year this method will produce the best results. As soon as possible after planted press the soil good and solid, then cover the same with a very thin mulching of well decomposed cow or sheep manure (not over half an inch); this helps to keep the soil in the right condition for the roots to begin working through it at once.

Great care should be exercised in the ventilation at this season as a moist, stagnated atmosphere, or a strong draught through the house, will be almost sure to produce mildew. Should this show itself apply sulphur at once to check it. One of the best means we have found to do this is to close the house early enough in the afternoon to run the temperature up to 80° or 85°, then take a good sulphur bellows and fill the house full with sulphur; this method, if rightly understood, takes comparatively little sulphur; it is necessary to have the sulphur quite dry, and we have found that sifting it through a fine screen, such as a muslin netting, or similar material, greatly helps, as the object should be to produce a cloud like appearance, so that every leaf in the house gets a small portion of the dust on it. Then if the above temperature can be maintained in the house for twenty-five or thirty minutes all the fungoid growth will be destroyed. This method need only be followed till fire heat is applied; after that sulphur on the pipes will effectually destroy mildew.

When the roses are already planted more care will be required now in the watering, as the days grow shorter, that they are not over watered. Nothing will give them a worse check than this at this season of the year; their roots have not

yet fully spread all through the soil, therefore it is very easily soured if too much water is given. Keep all weeds and dead leaves cleaned off; the former robs the plant of its nourishment and the latter harbor and increase insect pests. Keep the plants tied up as they need it; this allows free circulation of air all through the plants, which is very necessary to keep them healthy. Give all the air possible on all favorable days, do all watering as nearly as possible early in the day so as to allow all surplus moisture to dry off before night; otherwise if a damp close atmosphere exists during the night it will soon produce a prolific crop of black spot, mildew and other kindred diseases.

Should the nights get chilly now it is far better to put enough fire heat in to expel the raw air; as often when the temperature outside indicates from 50° to 55°, that of the greenhouse may stand 56° to 58°, warm enough actually, yet in the early morning a very heavy dew can be seen all over the plants and the younger leaves will hang with drops like pearls. Many think this shows a healthy growth, so it does to some extent, but if these conditions continue for four or five nights in succession the chances are that some fine sunny morning the young leaves and shoots will begin to curl up, slightly at first, but before the day is over it may spread over a large part of the house, and ere another day is over the green leaves will fall off as if struck by an electric shock, and the grower stands with a wry face and wonders what has struck his previously fine looking house of plants. Where a house gets hit this way it simply means half the year's produce is gone, all of which can be avoided by giving just enough fire heat to expel the damp atmosphere. To many of our readers this undoubtedly will seem like superfluous information as it has been described several times in our columns before, yet as I write this several letters before me show that all your readers do not yet understand the importance of it, hence the repetition. JOHN N. MAY.

Summit, N. J.

Early Hybrids.

Where these are wanted no time should be lost in preparing the plants by carefully drying them off to ripen them thoroughly. Some varieties differ in their requirements in this line. *Magna Charta* will stand almost any amount in reason, while *Mrs. John Laing* would be positively injured under the same conditions. The main object should be to get good solid wood without causing the shoots to shrivel at any time during the process of ripening. There are many small details about this branch of rose forcing that can only be learned by experience, and as our seasons vary so much exactly the same treatment will hardly ever answer for two seasons, therefore it might be well for the beginner to note well all the conditions of his plants as he goes along, then where he makes a good success of it he can imitate it as nearly as possible the next season; and where it fails he can avoid the same also. There is no rule of thumb to follow and yet the same general principles are applicable at all times. JOHN N. MAY.

Hybrid Perpetual Roses at Roger Williams Park, Providence, R. I.

We try to make the roses one of the features of the park and have three borders each containing about 350 plants of



M. H. NORTON

the standard old varieties and some of more recent date. The winter of 1889-90 was not favorable to them and the prospect at the first of the season was anything but good, but by extra care and attention we managed to secure an extraordinary bloom fully two weeks late which continued till the first week in July; then came the hot weather and the blooms were soon gone. Then commenced the fight with that arch enemy of the rose in this climate—red spider. Powerful syringings every day and they began to make new wood and bloom again and at this writing the plants are doubled in size, constantly showing bloom since the first of the season.

Among those to make the best showing are Paul Neyron, Mme. I. Pereire, Gabriel Luizet, Prince Camille de Rohan, Celine Forestier, Coquette des Blanchés, Merveille de Lyon, Eugene Appert, Countess Serenye, Baron Rothschild, Alfred Colomb and others just as well known. They have been a constant source of admiration from the beginning of the season and they are likely to continue to be so till frost comes. We have given the borders two dressings of phosphate and two of liquid manure through the blooming season. For one, consider the possibilities with the hybrid perpetual rose great even in this climate. G. H. TASKER.

Roger Williams Park, Providence, R. I., August 18.

Roses in Solid Beds.

"The best Mermets that come into the Chicago market are grown by George Klehm at Arlington Heights and they are grown in solid beds," appeared in February 1 issue of the *FLORIST*. In the same

account it is also stated that these Mermets are four years old; furthermore, which is of great importance, it is said: "He is cutting great quantities of magnificent bloom and beautiful color. The blooms have so much substance that they last in good condition a remarkably long time after being cut."

There is much in the above system of growing roses to make it worthy of consideration by every rose grower in the land, for when we hear that the best Mermets that come to the Chicago market are grown in a solid bed we wonder if they can not be grown elsewhere with like results, for it should be every grower's aim to send the best; and when you combine the best with great quantities of magnificent blooms of beautiful color it leaves nothing to be desired except a better foliage. E. S. Bartholomew also says in his article on overhead heating of August 15, "I know of roses that have been planted twelve years in a solid bed and are at this time perfectly healthy and giving abundant blooms." I have also seen abundant Mernet blooms, magnificent Perles, good Niphetos, Gontiers, Bons and the best Brides and Bennetts, all grown in solid beds and I am fully convinced that cuttings taken from solid beds, under the same treatment as those taken from the bench, will make stronger growth if planted on bench the following season. I would like to have the experience and views of brother florists on the subject of roses grown in solid beds, for there is certainly much less labor attached to roses grown in this way.

GRANT J. MARPLE.

Swarthmore, Pa.

It seems to have been satisfactorily settled that while each of these systems

has its advantages, either will prove satisfactory in most cases, provided the treatment of the plants is adapted to the conditions under which they are growing. But the raised bench has a great advantage in the fact that in the dark days of winter the quantity of moisture in the soil can be more accurately regulated, and that a chance over-watering will not prove such a permanent damage as it would on a solid bed.—Ed.]

Number of Blooms Cut

Mr. J. A. Balmer, Vincennes, Ind., sends us the following record of blooms cut, showing the comparative productiveness of five varieties of roses as grown by him, and which he has given us permission to print in full.

The table covers seven months of the season of 1889-90. The plants were 3-inch stuff, benched June 20, all in same soil and all had same treatment, temperature and light and were in the same house.

	Perle.	Mermet.	Bride.	Niphetos	La France.
Oct.	306	274	324	381	363
Nov.	1001	271	202	519	265
Dec.	879	242	207	526	231
Jan.	871	287	261	360	263
Feb.	1053	280	241	399	197
Mar.	1092	367	324	577	373
April	1659	499	360	580	470

	7361	2220	1919	3342	2168
No. plants	340	130	130	178	165

Average to plant for 7 months, Perle, 21.212, Mermet, 17.11, Bride, 14.99, Niphetos, 17.163, La France, 13.23.

Total number of plants 943.

Total number of blooms cut 17,010.

General average per plant 18.36.

Winter Blooming Plants.

The florist who does a local trade often finds that a little extra variety in his cut flower stock is a great advantage, not only on account of the better effect he is enabled to create in an otherwise hackneyed design, but also from the fact that a certain degree of economy in flowers may thus be secured just at the time that economy in flowers is a special object.

Of course it is well understood that there are many plants that are well suited for a local trade that would not prove profitable if grown in large quantities and sent into a wholesale market, and it is with this understanding in view that the following brief notes have been written.

Euphorbia Jacquiniiflora is one of these winter blooming plants that deserves more recognition than has been accorded it of late years, being easy to manage and seldom failing to produce at least two crops of its graceful sprays of bright scarlet flowers during the winter.

The flowers of this *euphorbia* last well after cutting, and the contrast between its dark green leaves and brilliant petals (or bracts rather) is very striking and attractive. If more convenient to do so, *Euphorbia Jacquiniiflora* may be grown as a pot plant, and if a little liquid manure be given from time to time as the growth progresses some fair spikes of bloom may be obtained, but to secure the best result the plants should be planted out on a bench during the summer so that they become well established before winter sets in, selecting for this purpose a warm corner in a rose house, or house of similar temperature and full exposure to sunlight.

A light loam enriched with some dry

cow dung is all the compost necessary, in addition to which some liquid manure may be given as the condition of the plants may require.

Cuttings of the plant in question are best made of half-ripened wood, and will root readily in a warm house, providing they are not over watered before they become calloused.

A few of the free flowering shrubby begonias are also very useful for this purpose, for when planted out on a bench in a warm house they grow very rapidly, and are scarcely ever out of bloom.

Of these *B. Saundersiana* is probably the best of the red varieties for general use, its drooping clusters of flowers and buds varying from deep pink to bright red.

If space can be spared for it to develop *B. rubra* is also an excellent species when treated in the manner recommended above. But *B. rubra* is such a rampant grower when in congenial quarters that it soon takes up too much space, and for that reason is not always desirable, though its flowers are large, brightly colored and very effective.

Among the large number of good pink flowered begonias there are a few that are specially prominent for winter use, and in the latter list should be included *B. insignis* and *B. Ingramii*, both of which are excellent, while among the white varieties *B. nitida*, *B. odorata* and the very well known *B. semperflorens* may be classed with the most useful.

Another useful plant to the local florist (and indeed to the wholesale grower also) is *Cyclamen persicum*, long and favorably known to many growers, yet but little used on this side of the ocean until the past two or three years.

The many shades of color, from dark crimson to pure white that may be found among a lot of seedling cyclamens of a good strain, are found very convenient and effective in cut flower arrangements, and by a little good management the plants may be brought forward in successive lots so as to secure a constant supply of flowers during the winter and spring.

Daphne indica alba is another first rate winter bloomer, and produces its Jasmine-like flowers in close trusses and in great profusion. The flowers are not only attractive in appearance, but also delightfully fragrant and last well when cut.

This plant does well under similar treatment to that given to camellias, and like the latter grows best when planted out in a solid bed, only being particular in regard to drainage, as the *daphne* will not endure stagnant moisture at the root.

The propagation of *daphne* is readily effected by means of cuttings made from half-ripened growth and placed on moderate bottom heat, the chief precaution necessary to success being to avoid the wilting of the cuttings at any time.

W. H. TAPLIN.

The S. A. F. at Wellesley.

Our full page illustration is engraved from the photograph taken on the grounds of Mr. H. H. Hunnewell at Wellesley, Mass., Thursday afternoon, August 21, and shows in a group the majority of those who were in attendance at the Boston convention of the Society of American Florists. The view is from the steps in front of Mr. Hunnewell's residence, overlooking the broad expanse of lawn which extends to the road in the distance, where are faintly outlined some of the vehicles which conveyed the party from and to the station.



Catalogue Classification.

As we are approaching the chrysanthemum season a few remarks on their habits and the desirability of certain varieties for certain purposes may not be amiss. It is an undisputed fact that we have a number of varieties that are worthless for general purposes, and these same varieties are the cream of all the chrysanthemums, when grown in a way that will reveal their merits.

In catalogue descriptions we are informed of the color and size of the flower, but in very few cases, in fact none to my knowledge, where a poor grower is plainly so stated. I mean a poor grower for general purposes, or grown in the way that nine-tenths of all the chrysanthemums are grown, planted out in the open ground. I believe aside from the evil of not describing the habit of the plant, the seller is doing an injury to himself by selling to the purchaser a variety unsuitable for his purpose, although the variety may be the very cream of his collection when grown in a certain way and for a specific purpose. I believe that if chrysanthemum specialists in compiling their catalogues would class them in a way that the buyer could select those varieties that are suitable for out door culture, and vice versa, there would be less complaints of the following nature. I made a list at the exhibition from So and So's collection and sent him an order but did not get the varieties ordered. I have personal knowledge of instances of the above nature. When the parties received just what they sent for, but they want of a knowledge of the habits of the different varieties and their requirements, produced very different results from what they expected. I feel certain that the evil done in this way is the means of disgusting large numbers of amateurs, and professionals too. There are a number of the finest varieties of this Queen of the Autumn that ought not, and can not with any degree of success be planted out of doors, whereas if planted in a bed or on a bench in a greenhouse, the plants and buds properly thinned they will be a joy and a delight to their possessor.

Where large quantities of seedlings are grown and it is undesirable to house so many of them, a good way to test them is to take cuttings from the strongest points, number the plant and cuttings with the same number; when the cuttings are rooted put in small pots and when established plant on a bench in the greenhouse six inches apart, keep all side shoots pinched out as soon as they appear, and whenever the buds are large enough to handle pinch off all but the center one. In this way all varieties worth keeping can be determined and the old stools saved for cuttings without the trouble and expense of housing the worthless varieties.

The devotees of this popular class of plants will have to exercise considerable care in selecting from the large number of seedlings annually sent out, although generally they have each their peculiar merits. A general knowledge of the

merits or demerits of all the varieties is quite out of the question. It is therefore imperative that the disseminator describe the habit of the plant in addition to the color and size of the flower. Good varieties that have their peculiarities of growth would receive the attention their merits deserve, the frequent complaints of trickery in this branch of the trade would be less common and varieties of sterling merit would receive proper cultural attention.

JOHN DALLAS.

Seasonable Notes.

I have just returned from a visit among chrysanthemum growers and am sorry to say that I found a great many plants more or less crippled. In many plants no less than from six to eight shoots are blind and crippled. Now it is no use to leave a shoot that is blind or imperfect; cut it clear out to the first healthy growth. Crippled shoots always have very thick imperfect leaves; these leaves get thicker and thicker until they will soon be the 32nd part of an inch thick; the sap these leaves absorb is the sap that ought to go to make fine flowers. The off at once the crippled thick leathery leaves that are where fine buds should now be forming.

Watch carefully for perfect buds and as soon as selected take off those not required. Be careful in thinning out the lateral growths; do not allow any growth to extend beyond the height of the flower buds selected to remain; flower buds must have the coign of vantage from this out.

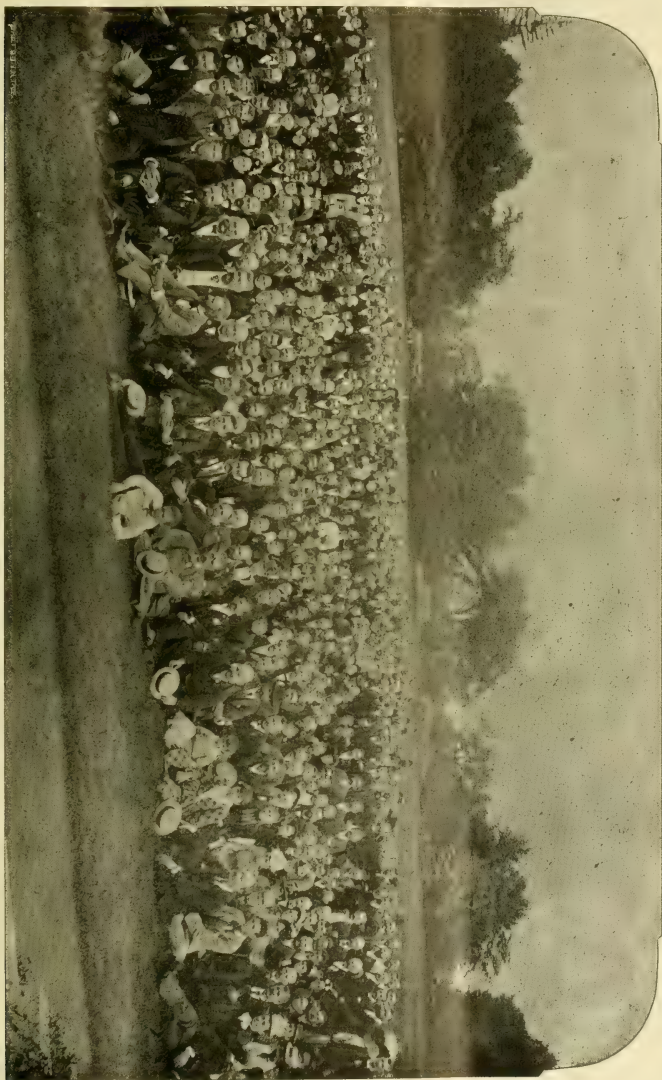
Cautionously water all plants that remain outside in pots; don't forget that the equinoctial storms are about due and that it may rain for four or five days. Mix as much brains as you can in watering for the next three weeks.

Many grow plants in the open ground for decoration and even for exhibition. All plants growing in the open ground should be dug around one week previous to lifting; this cutting the roots will result in new feeders being formed within the space between the digging and the stem of the plant. If plants are intended to be put in 12-inch pots they should be dug around so that there is a 12-inch ball to be potted. After digging around I water thoroughly and when ready to lift I prefer to do it in dry weather rather than wet.

JOHN THORPE.

AGAVE VIRGINICA.—"J. E. B." Ky., sends a specimen of this for name, and remarks: "I was riding up a high clay and lime stone hill at sun up in June and was exhilarated by the odor from some flower. I searched and found a bed of this in bloom. The fragrance was delightful." It is a hardy herbaceous native species of modest pretensions. Its leaves are annual—most perennial as is the case with the agaves so common in cultivation, and unlike them too, this species blooms every year. The flowers are small, yellowish and scattered along simple or branched scapes three to five feet high and arising from a tuft of fleshy, rough margined leaves. An interesting plant for amateurs, but not one that commercial florists could handle to advantage except as one of a large assortment of plants.

THE NEXT annual convention of the Association of American Cemetery Superintendents will be held at Detroit, opening September 10, 1891.



THE SOCIETY OF AMERICAN FLORISTS, AT MR. H. H. HUNNEWELL'S, WELLESLEY, MASS. AUGUST 21, 1890.

Long Island Notes.

BY WM. FALCONER.

CHINA ASTERS.—All spring sowings are now past, but those sown out of doors May 28 are coming nicely into bloom.

NICOTIANA AFFINIS sown during the first week of June are in fine bloom and the plants in perfect condition. Older sowings have been cleared away because they had become so seedy.

HELIANTHUS RIGIDUS.—If there is one summerflower more than another you should get it is this one. The flowers are bright, comely, elegant, and the plant is a hardly perennial of the easiest cultivation, 4 to 6 feet high, very copious, and never a weed.

FOR BRIGHT COLORING. all summer long on light land what can surpass the dwarf, striped single petunias?

DAHLIAS.—Some folks who a year or two ago grew dahlias beautifully are now wondering why their plants don't blossom as well as they used to.

OLD DELPHINIUMS that were cut back as soon as they had done blooming are, more or less, in flower again.

If you forgot to plant some bulbs of *Crocus speciosus*, *Colchicum speciosum*, *Amaryllis Belladonna* or *Sternbergia lutea* last spring you have missed a treat in the way of fall flowers.

POLYGONUM CRISPATUM and its lesser form *P. c. var. crispum* do spread tremendously, but when they are in full bloom, as they now are, our hardest feelings against them are considerably softened.

PANSIES are coming up thick in the beds occupied by pansies last spring. Now, is it advisable to save your stock for winter and spring blooming from these self-sown seedlings? That depends. If you plucked and sold your finest flowers last spring your seed must necessarily have been produced by the remaining poor flowers. And as you sow so shall you reap. The very best seed obtainable is none too good for you, then get it and don't trust to luck.

FORGET-ME-NOTS.—My plants for early blooming are fine large stock, but those for blooming outside next spring are the self-sown seedlings from around last year's plants. They are now being gathered and planted in a cold frame.

CHRYSANTHEMUM MAXIMUM raised from seed imported from two different European seed houses last spring is now in scattering bloom. Both kinds are alike, coarse in growth and weedy in bloom, and totally unlike the splendid flowers we had last July from plants which we bought for the genuine maximum.

FRENCH MARGOLDS are finer in September than during any earlier month.

GLOBE AMARANTHIS increase in fullness and beauty as the summer advances, but September is their heyday.

ROSE MADAME GEORGES BRIANT grows with the vigor of a weed, and as it grows it blooms also, but what a pity, it is covered with mildew. And there isn't a speck of this disease on *Rosa rugosa* itself.

MINA LOBATA is one of the most ungrateful plants we grow. No wonder it had been dropped from cultivation for so many years before its reintroduction. And it will be dropped again.

"**LET ME ALONE**" seems to be the motto of *Lilium speciosum* and *album* as grown with us. Clumps of them in the azalea bed growing up against the bushes and where the ground is also mulched with leaves and litter are 5 to 6 feet high and

many of the stems have had as many as twenty flowers. These clumps have been undisturbed for many years.

CENTAUREA AMERICANA is an annual species from Texas, and although long in cultivation is seldom met with in gardens. It is of tall, erect habit, 4 to 6 feet high, sparingly branched and bears very large—4 to 6 inches across—showy lilac-purple flowers. A variety of it called *Hallii* has deep wine purple flowers. Quite pretty to grow in the garden, but also used as cut flowers. I merely mention it because of the great attention it receives from visitors here, on account of its very large, showy, handsome flowers.

CLEMATIS RECTA—It is in full bloom here about the middle of June and past about the end of the month. As soon as it has done blooming, for tidyness' sake I have the spent flower heads cut off, but do not cut over the rest of the body of the plants till fall as it is quite fresh and green and keeps so till October. By mistake, however, one of the workmen this season instead of cutting off the old flower heads cut the plants down close to the ground. After a little while they started to grow again, and have kept on growing and now are in bloom a second time. But I would disavow such practice as it weakens the plants.

FUNKIA GRANDIFLORA and *Funkia lancifolia* both are in good bloom. The first named is the lovely white flowered day lily so often seen in old gardens and which can be made excellent use of by florists; the *lancifolia* is a lesser, narrow-leaved species with blue flowers, and quite desirable as a garden plant. Both are hardy, long-lived perennials and delight in good ground and a shady place. Florists doing a local business should have lots of this white day lily; they generally have shady places under trees, etc., where carnations or roses won't thrive and which would be just the home for this beautiful late bloomer.

THALICTRUM ADIANTIFOLIUM is a hardy herbaceous perennial with beautifully fine cut foliage like that of a common maiden hair fern, hence its specific name. It is easily raised from seed, easily grown if on well drained soil, and a useful plant for florists. Mr. J. T. Temple, of Davenport, Iowa, is very eulogistic in its favor, he uses it as pot plants in place of maiden hair ferns, and finds that it stands as well, looks as well and gives as much satisfaction as the ferns to his customers.

STACHYS LAXATA is another of Mr. Temple's favorites. It is a hardy herbaceous plant of spreading habit and has thick, woolly leaves. The flowers are of little account. Mr. Temple uses the leaves as an outer border to cheap bouquets and is high in his praise of them for this purpose.

EGOPodium PODAGRARIA POLYVARIATUM.—This is the variegated form of the troublesome great weed or bishop weed of Europe. It is a hardy herbaceous perennial, luxuriating in moist soil and preferring a faintly shaded spot; the variegation is white, well defined and retained the summer through. Although the plant is a pest in Europe this variegated form seldom gets beyond bounds in this country. It is another of Mr. Temple's pets. He uses it for hanging baskets. Grown in this way and well watered he assures me that it makes a splendid growth, retains its leaves well and well and furnishes the baskets or vases more densely than any other plant of the kind he knows. Very easily propagated by division. Hot, sandy land and dry summer weather are killing to it.

MANETIA BICOLOR.—"So you have got the manetia fever too," remarked a gentleman to me here the other day as he saw a little fence covered with it. "No, not quite," I remarked. "I am the author of that fence." It was the dense growth of manetia on that little fence three years ago that suggested its importance to the florist who boomed it." But Mr. Temple of Iowa tells me it doesn't bloom as well in the west as does *M. cordata*. Well, I have cordata too and in fine bloom on a string trellis. With me *cordata* is the prettiest and most copious bloomer of the two after midsummer, but for an all-the-year round bloomer bicolor certainly has the advantage, and bicolor is the thriftiest grower and the easiest to propagate.

VARIEGATED HYPOCYRTE PLANT (*Euphorbia heterophylla* fol. var.)—A kind friend in the south sends me a spray of this plant splendidly variegated with yellow and also with white markings. It came up, an accidental variety among a lot of the typical form, and was boldly variegated from its birth. The plant is vigorous and bearing seed quite freely, and he sent me the seed. Now, after all, the plain *hyocyrt* plant isn't much of an ornament for northern gardens, but this variegated form, if we can hold it, is a decided acquisition, because the variegation is so liberal and so pronounced and permanent from the beginning. To paralyze my friend, L. W. Goodell, of Dwight, Mass., who introduced this plant two years ago, I brought my spray to Boston, but he gave me a set-back when he told me he had the same thing last year. I didn't open any seed, however, and he has only been able to save one plant from it from a cutting, and so far it isn't seeding. This *euphorbia* has been called summer-blooming poinsettia, Mexican fire plant, painted leaf, fire-on-the-mountain and *hyocyrt* plant. But if we are to give priority the precedence I fear we will have to abide by the very homely name *hyocyrt* plant, the name by which it is so commonly known by the people of the far south.

ARISTOLOCHIA GOLDIEANA.—Apropos of my reference to this wonderful flower, page 41, Mr. John Dallas, Fairfield, Conn., writes me: "Aristolochia Goldieana first flowered in Europe in the Botanical Gardens, Glasgow, in 1867. I was then employed in those gardens and this wonderful plant was under my charge. Mr. Peter Clarke was curator of the gardens, and an intimate friend of Mr. Goldie. The flowering of this aristolochia caused quite a furor in botanical and horticultural quarters, and blossoms of it were sent to Kew, and soon afterward it was figured in the Botanical Magazine. I remember Mr. Clarke coming to me one day with a handful of letters which were orders for young plants at five guineas a piece. But this was only one of many rare tropical plants Mr. Clarke received from time to time from his friend Mr. Goldie. One of the most striking of these I remember was a densely yellow powdered gymnomorpha fern with the powder as thick on the upper as on the under side of the fronds."

ECONOMUS RADICANS is a common little hardy evergreen shrubby vine generally used for bell edgings to flower beds and carpeting beds of mixed evergreens. It is also used as a vine to cover low rough-faced stone walls or stumps, and run up the trunks of thin-headed trees in fish fashion. At Wellesley the other day we noticed it planted against the wall supporting the bank as we entered the grounds, also against the terrace walls

in the Italian garden, and Mr. Hunnewell told us that while he liked the *Ampelopsis Veitchii* for high walls he prefers this little cunymus for covering low walls.

Eronymus latifolius is the showiest shrub in fruit just now in our gardens, indeed, when in full fruit and ripe it is the showiest species of the genus.

Eronymus sieboldianus came into bloom about the middle of August and still, September 1, is in good bloom. Its flowers are greenish white but produced in immense profusion. About the middle of November its fruit will begin to ripen and the fruit is far more ornamental than are the blossoms. A peculiar thing about the flowering of this shrub is that the flower buds appear in May but do not open till August.

Tamarix sinensis is now in its loveliest fleecy glory—10 to 12 feet high and a mist of pink spray. It is a hardy shrub, the hardest of the tamarixes, as easily raised from cuttings of the ripe wood as is a willow, and blossoms in August and September while the other species blossoms in May and June. Of little use among cut flowers, but indispensable among shrubs.

Hydrangea paniculata grandiflora.—Those of you who cut your plants hard back last winter, thinned the young growths pretty severely in early spring, and mulched the ground about the plants in summer, now are, I presume, admiring the extra large bunches of flowers that have resulted from this little attention. Don't you think there is more credit to your standing as a florist in these big heads than there would be in a lot of little commonplace ones?

THE LATE *Hydrangea paniculata* is just coming into bloom, many heads are still green; and the *grandiflora* is beginning to tinge. You want this late bloomer, not for cut flowers, but as a shrub in bloom.

Australian Acacias.

On page 18 AM. FLORIST August 15, A. M., Massachusetts, asks information from a brother florist as to the best method of cultivating the Australian acacias and the best species of same.

The Australian species of this genus are both numerous and handsome, producing their flowers of various shades of yellow from January to July, and thus rendering the greenhouse or conservatory attractive during several dull months. They are easily grown into good flowering plants, and should be potted in a mixture of peat and loam in equal parts with a good quantity of sand. When flowering is past they may be placed in the open air, which will greatly benefit them. It is much to be regretted that so few species are to be found in our commercial gardens, as their hardness renders them most desirable plants either for the greenhouse, the decoration of the sitting room or as ornaments for the window of the cottager.

A. argyrophylla is a handsome shrubby species growing to a height of several feet and furnished with oblong silvery silky phyllodes and axillary stalked globular heads of yellow flowers.

A. armata grows from four to six feet in height, the so-called leaves (phyllodia) obliquely ovate, entire, and of a rich dark green color. The flower heads are solitary in the axils and are of a rich golden yellow.

A. cochlearis is a rigid growing glabrous species producing its globular heads of bright yellow fragrant flowers in pairs from the axils of the leaves in January,

these latter linear lanceolate, deep green and terminate in a sharp point.

A. Drummondii is one of the most handsome species of this very extensive genus, forming a dwarfish shrub with pinnate leaves consisting of two pairs of pinnule, having deep green oblong leaflets. The flowers are of pale lemon and borne very freely in cylindrical spikes. It blooms from April to July.

A. Riceana is a particularly handsome and distinct species. It grows to a great height, the branches hanging gracefully like a weeping willow; it makes a handsome plant in a small pot. The phyllodes are linear, dark green and are scattered



FLOWERING BRANCH OF *ACACIA RICEANA*.

or whorled. The flowers are produced in long spikes and are pale yellow in color. These I believe from experience to be a few of the best for cultivation by florists in this country and would well repay a trial.

JOHN HENRY,
Grand Haven, Mich.

Chicago.

The congress of horticultural societies which convened at the Sherman House August 27 in response to a call issued by the Illinois State Hort. Society, to consider matters in connection with the World's Columbian Exposition of 1893, proved to be a gathering of fruit growers, rather than of horticulturists in the broad sense of the term. And as a natural sequence the main consideration of the meeting was for the fruit display.

A meeting was held at the Sherman House September 1 to organize a Horticultural Society for Cook County. The meeting was well attended and much interest was manifested in the project. Several well known amateurs have taken hold with a will and there is every indication that the labors of the promoters will be crowned with the fullest success. A committee was appointed to have the society incorporated, and another committee is considering the matter of by-laws. Another meeting will be held at an early date to perfect the organization and elect officers.

A fine collection of gladioli was sent to the meeting of the horticultural societies by C. H. Allen of Floral Park, to decorate the room, but unfortunately they arrived at the end of the last day.

At the first meeting of the Florist Club after the return of those who had attended the Boston convention, a beautiful and elegantly ornamented leather medal, a foot in diameter, was presented to the members who had participated in the Bowling Match at the Hub. The present high price of leather makes it an extremely valuable souvenir. It will undoubtedly be highly prized, and made use of by the recipients when their shoes need resoling.

Among those interested in the new Hort. Society now in process of organization, is Professor Bastin, the well known botanist. The Professor is much interested in the project of making a wild garden of native plants a feature of the horticultural display at the World's Columbian Exposition. He is also endeavoring to have the park commissioners attach good sized labels to all trees and plants in the public parks, giving the common and botanical names and the habitat. This would certainly greatly enhance the educational value of the parks, and as soon as the organization of the Hort. Society is perfected it will undoubtedly add the weight of its influence to bring about this desirable arrangement.

In an old directory of Chicago, published by W. W. Dusenhower at 233 Lake street, for 1831, is the name of but one florist, Samuel Brooks, located at the corner of Adams and Clark streets. Six years afterwards two others were known to be here—Job Carpenter on West Lake street opposite Union Park, and A. T. Williams on the north side of Fullerton avenue. In 1857 Edgar Sanders was added to the number. The Chicago Directory for 1881 gave 56 names of florists. The directory for 1890, just issued, and which embraces the 175 square miles of territory that the city of Chicago now covers, contains the respectable number of 156 names of firms doing business in Chicago proper. If to this we add from the American Florist Co.'s Directory some twenty outlying towns, and all tributary to this city, we get 64 additional names, making a total of 217 listed names of those in the trade as against "Father Brooks" solitary name in 1851, say 40 years ago.

At South Park the asters have been a total failure this year, and Superintendent Kanst mourns the loss of a very choice strain, which was the result of many years' selection. The single dahlias which have been on trial here for the last two years will be discarded as unsatisfactory. Caterpillars have been unusually plentiful and have done much damage the past summer. The cannas especially have been much disfigured by these pests, and the geraniums have also suffered severely. In the half-mile long bed of geraniums at this park none of the scriptlets can approach the old Gen. Grant in freedom of bloom and general effectiveness, while Waddington is decidedly the best pink. The trusses of bloom on both of these varieties could not be more numerous without completely hiding the foliage. A very effective bed planted this season was one of large, dwarf, richly colored cockscombs, with a border of alternanthera. The aquatics at this park have done remarkably well and have been a very taking feature. During times when the wind blows with sufficient strength to lift the leaves of the victorias they are held in place by laying upon them hoops of heavy wire wound with cotton cloth. For extra heavy wind a coil of old rubber hose, likewise wound with cotton cloth, is used in the same way. The cloth is used to over-

come the tendency of a black object to attract and hold the heat of the sun.

Mr. Wm. McMillan, superintendent of the parks of Buffalo, N. Y., spent a day in the city recently while on his way to Minneapolis. He visited Lincoln and South Parks, and spent a pleasant hour with Superintendent Kanst of the South Park system.

New York to Boston.

The party which traveled from New York to Boston on the magnificent steamer Puritan numbered 193. This included the New York and Philadelphia delegations in addition to a large number from other adjacent cities. It was a most enjoyable trip which will be long and pleasantly remembered. Much of the pleasure of the occasion was due to the untiring efforts and able management of President A. S. Burns of the New York Florist Club. With the assistance of a number of New York florists the large dining room of the steamer had been beautifully decorated for the occasion, and many other details supplied to make the trip a pleasant one. N.

Fall Exhibition of the Springfield Amateur Horticultural Society.

The fall exhibition of this society was held in Union Armory, Springfield, Mass., on September 2 and 3, and was the biggest show of "out of door" grown flowers and plants ever made in the Connecticut valley. There were over 350 exhibitors including those from out of town.

Asters, of course, led in numbers, and most of them were fine. Dahlias were good; dianthus in abundance, good, bad and indifferent; gaillardias, godetias, helianthus in great variety; gloxinias, and some fine ones too. Some fine pansies and petunias. Oceans of phlox and poppies. Some very fine verbenas and zinnias from out of town.

The professionals exhibiting were V. H. Hallock & Son, Queens, N. Y., gladioli and Lilium auratum; A. B. Howard, Belchertown, Mass., verbenas, Phlox Drummondii, marigolds, Lilliput zinnias and petunias. Mr. Howard makes a specialty of petunias and showed some which were nearly entirely marbled, there being only a faint trace of the stripe. Dexter Snow, Chicopee, Mass., hardy phlox, dahlias, geraniums and carnations; J. W. Adams & Co., hardy phlox, although gladioli and Hydrangea grandiflora; C. L. Burr, gladiolius Pres. Carnot with 7-inch flowers, Shirley poppies, zinnias, lilies, roses, pansies, asters and hardy phlox; H. B. Hart, dahlias; H. C. Smith, asters and pansies; Gale Floral Co., cut flowers; F. R. Belden, petunias, asters, gladioli and tuberous begonias; Miller Bros., cut flowers, pots, palms, jardinières and a fine floral ship.

There was a large attendance and everything passed off pleasantly.

ALFRED B. COPELAND.
Springfield, Mass.

OBITUARY.

LEVI B. WELLS, the well known florist of Helena, Montana, died at his home in that city July 23. He was the leading florist in that new state, and for twenty years was one of its most respected and useful citizens. A friend sends us the following sketch of his life:

"Levi Byron Wells was born May 10, 1842 at Mount Morris, Livingston county, New York. He received a fair educa-

tion, and while yet quite young started out from home to do for himself. He first went to Buffalo, N. Y. thence to Ohio, and in 1858 to Michigan where he attended school for a term of years, after which he went to Grand Rapids, where he resided during the war; and on June 14, 1863, he married Miss Laura Gordan the youngest daughter of the late Geo. W. Gordan, one of the pioneers of Grand Rapids. From Grand Rapids he came to Helena, Montana in the year 1869, his wife accompanying him.

During the early days of his residence in the state he was a great explorer, and many of his mineral finds have made others rich, but from which he never received any benefit. During his explorations many rare mountain flowers were plucked and native plants gathered by him which have been cultivated. Mr. Wells was a pioneer of Montana, and his name is familiar all over the state. But few if any were better posted or more familiar with the mountains and valleys of the state than he, and much valuable information has been furnished by him to the government and state.

"His death was caused by a run-away team coming in collision with his carriage containing himself and family while journeying to their nursery located a few miles distant. The collision overturned his carriage throwing him violently to the ground from which he received injuries resulting in his death a few hours later.

"Mr. Wells commenced the construction of a greenhouse in the year 1873 and the cultivation of flowers which by his peculiar fitness and perseverance he has carried to success, his greenhouses to-day being the finest west of Chicago.

"He was a man of naturally refined tastes and had a peculiar love for flowers; he was a botanist and became as intimate with the flora of the state as with the exotics which he cultivated under glass. He was of an exceedingly generous nature and many times the floral tributes which he brought and made less dear the last sad rites, were sent without money and without price to those who were financially unable to purchase. And as a fitting tribute to his generosity and worth he was remembered at his funeral by the rich and poor alike, who strewed the path from the house to the gate, and buried the casket which contained his mortal remains, with the flowers he loved so well.

"An honest, upright, generous and kindly soul has gone to receive its just reward."

Termes Flavipes, Koller.

(The Termite or White Ant)

There is probably no insect more injurious and less generally known at present among florists, than the termite, or white ant. They are fast becoming a nuisance in many localities, and no pest with which I am familiar can be compared to them. As one of the afflicted I have been making them a study for two years and would advise parties buying from infested firms to keep their eyes open.

There are three forms, viz: The winged, workers, and soldiers. The winged form contains the males and females which fly in swarms in spring and fall, and will be seen sticking to the moist glass or running over the floors and benches, seeking convenient nooks in which to start new colonies. The wings are deciduous, net veined, all of equal length and are lost after one or two hours' flight. The body is one-eighth of an inch long, dark brown covered with brown pubescence, the

abdomen is flat, expanse of wings three-fourths of an inch.

The workers are apterous (wingless) and asexual (neuter). These are the ones which do the mischief. They are white with round heads, inconspicuous mandibles and stout soft bodies three-sixteenths of an inch long somewhat resembling true ants (Formica).

The soldiers are larger with pale yellow heads, one-third their own length and well developed mandibles which they use effectually in guarding the workers against enemies.

They tunnel through all sorts of wood-work, rafters, sills, floors and benches and it is impossible to root cuttings in a sandbench infested with them. On entering the bottom of pots they destroy the roots and then hollow out the entire center of the stem or bulb leaving nothing but the shell. Last year I lost nearly all my tulips, many of my amaryllis, roses, cannas, and stove plants, and had to renew many of my benches. In an inch board one by eight feet which to all outward appearance was sound I killed over 8,000.

The quickest way of detecting their presence is by the covered runways they always construct when crossing over iron, stone or brickwork. I find no way of exterminating these pests, but manage to keep them in check somewhat by a weak solution of corrosive sublimate and water for watering, and by saturating the floors and open benches with carbolic oil.

ROBERT M. GREY.

Pittsburgh, Pa.

Cypripedium Caudatum, var. Luntii.

This is a new and grand variety of the well known species, being distinct not only in the size, but the shape of the pouch and the coloring. The dorsal sepal measures 6½ inches in length, while the lower one measures 7½ inches. The petals are extraordinary in size, being 33 inches in length, yellowish and beautifully shaded with reddish brown. The pouch is very large and round, yellow with reddish shading, while there is a yellow margin near the white opening which gives it a great contrast of color and adds greatly to its beauty.

Am happy to name it after William W. Lunt, Esq., of Hingham, Mass., a rising connoisseur of cypripediums and the happy possessor of this grand variety.

W. A. MANDA.

Passiflora Constance Elliott.

In the beginning of the year 1889 I got a plant of Passiflora Constance Elliott and planted it in a box at one end of a greenhouse; the box was 1½x3½ feet.

It bloomed last year about August and not very many blooms, but this year it started to grow in January. The first flower opened March 18 and the last one June 24, and by actual count it had 392 flowers on it, some days as many as 12 at one time. Can anybody beat that? I might add that a strong plant which was planted outside this spring has made plenty of growth but no flowers.

Germantown, Phila. JOS. A. BLUM.

Shipping Plants C. O. D.

We would have you inform us through your paper if there is any way you can compel parties to take goods ordered, when you ship them C. O. D. and they refuse to take on the ground that the goods were shipped C. O. D. and no other reason is given. It is very aggravating

to have parties so sensitive about this C. O. D. business. W. W. GREENE & SON.

[The most satisfactory solution of this question we have ever found is this: If the party is not sufficiently well known to be credited mail him an estimate showing cost of his order and ask for remittance or references or part cash and instructions to collect balance on delivery.—Ed.]

Steam Heating.

I would like to hear the opinion of some of those florists who have used both kinds of boilers, as to which is the best for economy of fuel and labor. The high pressure tubular, such as locomotive etc., or the low pressure regular heating boiler? Both kinds to be run at low pressure. Also which kinds are least liable to get out of order. J. F. S.

M. Victor Lemoine.

Of the group of prominent French horticulteurs of the present time, none is more widely known and respected than Victor Lemoine; born in 1823 the present year finds him 67 years old, hale and hearty and extremely clear headed.

His birthplace was Deline, previously Department of the Moselle, now annexed to the German Empire with Alsace-Lorraine, where his family have been generations of gardeners for the past 700 years, son following father in this honorable calling.

He was employed in some of the most celebrated of the continental nurseries of the time; with Baumann of Bollmiller, Van Houtte of Ghent, Mieliez in Lille, and in 1850 founded for himself an establishment devoted to the cultivation, selection and distribution of novelties in plants and shrubs.

The beginning was difficult, as he had not more than a few thousand francs for capital, but enthusiasm for his work and faith in his final success prevailed over all discouragements. His thorough and practical knowledge of the principles of hybridizing has brought him excellent results in many diverse classes of plants.

In 1852 he produced the first double portulacacs, highly praised in the horticultural journals of that day; 1854 the first double potentilla was obtained by him and sent out under the name of Gloire d' Nancy; 1859 he raised the new hybrid streptocarpus, 1862 the new monochatmus and introduced into Europe *Spiraea callosa alba*; 1864 *Clematis lanuginosa nivea*; 1869 was a remarkable year, witnessing the introduction of the Japanese *Hydrangea paniculata grandiflora*, now unsurpassed among shrubs for popularity, and the production of the double zonal geranium *Gloire de Nancy*, followed by the first doubles with rosy and pink flowers, Marie Lemoine, Mme. Lemoine and others; 1871 he raised the first double tuberous begonias, Lemoinei and Gloire de Nancy, and also the still very popular double white clematis, Lucie Lemoine; 1877 new double ivy leaf geraniums; 1878 the magnificent double lilacs and Lemoine's hybrid gladioli now so widely known; 1882 various montbretias which for some reason never attained much popularity in our country; 1884 *Begonia* smp. gigantea and the introduction of *Begonia* aurea, one of the most beautiful of all variegated plants; 1885 *Heg* smp. elegans; 1887 *Fuchsia* Mrs. E. G. Hill; 1889 *Gladiolus Nancienne*.

The begonia is a great favorite with him and he has now ready to disseminate the magnificent "Lemoine's Triumph."

For next year he has several fine sorts—a fall flowering tuberous rooted white and a pink gigantea.

Besides the above admirable list his improvements are noticeable in abutilons, bouvardias, heliotropes, lantanas, phloxes, weigelas, etc.

He is a fellow of many European horticultural societies, and a corresponding member of our own Massachusetts Hort. Society. He was decorated with the insignia of the Legion of Honor in 1889.

His present establishment at Nancy is devoted almost exclusively to the production of new plants by cross-fertilization and hybridizing. It may not be amiss to remark that the production of novelties is not unaccompanied by work;



VICTOR LEMOINE.

out of four or five thousand seedling fuchsias and twice that number of geraniums he can hope for only a very limited number of improvements, not to exceed three or four to the thousand; hence if what seems a good price is charged it is only right, as these few distinct new sorts must be made to pay for the work on the discarded thousands.

M. Emile Lemoine is the worthy son of a notable father, being a most capable assistant in all the branches of their business.

The writer looks back with great pleasure to the time spent with M. Lemoine at Nancy last summer; their generous hospitality and their eager willingness to learn anything of interest in their establishment will long be remembered among the many kindnesses received at the hands of the European florists. E. G. H.

FLORISTS' HAIL ASSOCIATION OF AMERICA.

J. M. JORDAN, St. Louis, President.
EDWIN LOSSDALE, Philadelphia, Vice-President.
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SECRETARY'S REPORT.

On the 15th day of August, 1890, the Florists' Hail Association consisted of 359 members who insured 963,307 feet of single thick glass, and 1,168,816 feet of double thick glass, making a total of 2,132,123 square feet of double thick glass. The total assessments collected upon the same has been \$1,524.59, and the total membership fee \$1,322.46. The amount of guarantee fund allowed the subscribers this year has been \$11.25. The amount of reserved fund now on hand after deducting the amounts allowed subscribers to the guarantee fund is \$1,235.96, and the amount of the assessment fund on hand after paying all losses

and expenses from June 1st, 1887, to August 1st, 1890, is \$1,235.96. No assessment has yet been levied. The glass now insured is located in 24 States and Winnipeg, Manitoba. The losses paid during the year have been to F. S. Krebs, Philadelphia, \$67.95 for 1,341 square feet of single thick glass; to Newby & Co. of Logansport, Ind., \$15.12 for 108 square feet of double thick glass, upon which they held double insurance; to the Kemble Floral & Seed Company of Oklaosloos, Iowa, \$7.95 for 159 square feet of double thick glass; to C. C. Lincoln, Nebraska, \$4.95 for 545 feet of single thick glass and upon which he held an extra one-half insurance; to D. M. Briggs of Avoca, Iowa, \$4.95 for 3 square feet of single thick glass; to Joseph W. Losey of LaCrosse, Wis., \$3.95 for 580 square feet of single thick glass; to John A. Salzer, Sert Co. of LaCrosse, Iowa, \$1.89 for 1,501 square feet of single thick glass. Not having all the glass insured they received a pro rata payment of loss. To August 1st, 1890, the Florists' Hail Association insured 3,354 square feet of single thick glass, Messrs. Juengel also received pro rata payment.

Hail storms have been prolific, and so far as your Secretary has been able to learn, hail has fallen in Philadelphia, Oswego, N. Y., Denison, Texas, Albany, N. Y., Eastern Maryland, Jetersville, Ind., Cairo, Ill., Culterville, Ill., Tuckahee, N. Y., Nyack, N. Y., Red Bank, N. J., Keyport, N. J., La Harpe, Ill., Columbus, Cleveland, Ohio, Middletown, N. Y., Paterson, N. J., New Haven, Conn., Harrisburg, Pa., Kimsview, Mo., Baltimore, Md., Memphis, Tenn., Bradford, Ill., Grand Isle, Louisiana, Lincoln, Nebraska, Oklaosloos, Iowa, Congress, Ohio, Kearsburg, Ohio, Upper Sandusky, Ohio, Quincy, Ill., La Crosse, Wis., Highgate, N. Y., Buffalo, N. Y., Kingston, N. Y., Avoca, Iowa, Anderson, Indiana, Manchester, Pa., St. Louis, Mo., Beardstown, Ill., Frederick, Md., Okonoko, Indiana, Juniata Valley, Pa., Sea Isle City, N. J., Trenton, N. J., Doylestown, Pa., Shelby, N. C., Wheatland, North Dakota, Castleton, North Dakota, Windom, Minn., Fountain City, Minn., Sioux Falls, South Dakota, Pottsville, Pa., and Norristown, Pa. Believers in hail belt can take their choice as to its location.

The amendments adopted last year authorizing extra one-half and whole assessments have been used cautiously by members. An extra one-half assessment has been paid upon 18,250 square feet of single thick glass, and upon 47,000 square feet of double thick glass. An extra whole assessment has been paid upon 22,330 square feet of single thick glass, and upon 10,075 square feet of double thick glass. This plan has worked as smoothly as the original method, and members desiring plant insurance cannot do better than avail themselves of the opportunity offered by these amendments. The losses for the year 1888 were 1 square foot of single thick and every 410 feet of double thick glass insured, and 1 square foot for every 978 feet insured. For 1889, 1 square foot of single thick for every 310 feet insured, and 1 square foot of double thick for every 300 square feet insured. For 1890, 1 square foot of single thick for every 98 feet insured, and 1 square foot of double thick for every 10,822 feet insured. The cause of this inequality of percentages for 1890 being that hail storms carefully adopted members having double thick glass. Your Secretary has every reason to believe an assessment will be met promptly by members, and judging from the number of inquiries received the indications are that the membership will be largely increased during the ensuing year. J. G. ESSLER, Secretary.

TREASURER'S REPORT.

CHICAGO, August 10, 1890.

RECEIPTS.

Aug. 16, 1889, received from former Treasurer	\$1,394.66
Received from Aug. 16, 1889, to Aug. 11, 1890, Membership Fees	\$893.99
First Assessments	566.07
	\$1,110.96
Less Guarantee Fund applied	11.25
	\$1,099.71
Interest account	35.00
	\$1,134.71

Total receipts \$2,436.47

DISBURSEMENTS.

Secretary's salary	\$100.00
Exp. charges and collection fees	1.05
Printing	1.00
Postage	10.00
Advertising	40.00
Losses paid—Krebs	65.00
New	15.00
Kemble	7.95
Chapin	15.00
Briggs	15.00
Losey	28.54
Salzer	41.69
Doll	37.66
Juengel	155.55
	\$ 649.43

Amount on hand \$ 426.47

J. C. VAUGHAN, Treasurer.

J. LAURENCE, Harrisburg, Pa.

ROSES

FOR IMMEDIATE PLANTING

	2 inch.	3 inch.	4 inch.
Duchess of Albany.....	\$12 00	\$15.00	\$18 00
Mme. Hoste.....	7.00	10.00	12 50
La France.....	5.00	9.00	12 50
Gontiers.....	4.00	8.00	12 00
Perles.....	4.00	8.00	
Niphetos.....	4.00	8.00	
Mermets.....	4.00	8.00	
Brides.....	4.00	8.00	12 00
Bon Silene.....	4.00	6.00	8 00
Halto, Belle, strong, 4-inch,	\$8.00 per 1000		
Gen'l Jack, 2-in. 4-in. 4-in. 4-in.	\$30.00 per 1000; 3-in. \$30.00 per 1000.		
H. Perpetual, 40 var. 2-in. 2-in.	\$50.00 per 1000.		
Geraniums—latest Novelties.			
Latania borbonica, 5 in. 4-in. 4-in.	\$3.00 per dozen. SEND FOR LIST.		

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

FIVE NEW AMERICAN ROSES

Probably the most interesting Novelties of the coming season, and those that will attract the widest attention of the Trade on both sides of the water, are our

NEW AMERICAN SEEDLING ROSES,

HENRY M. STANLEY,
MRS. JESSIE FREMONT,
MAUD LITTLE,
PEARL RIVERS,
GOLDEN GATE.

Five New Teas of sterling Merit, originated, grown, and tested in this country, and sent out on their merits at reasonable rates. Orders can be booked now, and will be filled in rotation as received—April 1st next. Full descriptions ready Jan. 1st. Prices, \$1 each; set of 5 for \$5; two of each, 10, for \$9; five of each, 25, for \$20.

ADDRESS THE DINGEE & CONARD CO.,

Rose Growers, West Grove, Pa.

ROSES.

	Per 100 Per 1000
Perles, Mermets, Cook, Souv. d'un Ami, Brides, Jacqs, and Bon Silene, strong plants, 4-in. pots.....	\$ 7.00 70.00
Souv. de Wootton, 4-in. pots.....	5.00 50.00
Amelopsis Vetchi, strong plants.....	5.00 50.00
Rex Begonias, fine varieties, 4-in. pots.....	8.00 75.00

CARNATIONS.

Hinze's White, Fred Johnson, Orient, Florence, strong field grown plants, 1st size.....	8.00 70.00
2nd size.....	6.00 50.00
VIOLETS, Swanley White, strong clumps.....	6.00 60.00
Small Louis, 1st size.....	8.00 70.00
2nd size.....	6.00 50.00

Our Carnations and Violets are strong, field grown plants, and perfectly healthy.

WOOD BROTHERS,

(Successors to I. C. WOOD & BRO.) FISHKILL, N. Y.

ROSES

FOR WINTER BLOOMING.

10,000 healthy Roses from 4-inch pots, consisting of Mermets, Brides, Perles, Cusins, Souv. de Wootton, Papa Gontier, La France and Niphetos, at \$10.00 per 100.

Bon Silene and Safrano, \$8 per 100.

Also 10,000 SMILAX from 2½-in. pots, at \$1.00 per 100.

JAMES HORAN, FLOREST, BRIDGEPORT, CONN.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.

IMPORTED H. P. ROSES,

Worked low on the Manetti stock offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000 at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER, JAMAICA PLAIN, (Boston), MASS.

C. M. PRESBY.

CHAS. P. ANDERSON

JOHN HENDERSON CO.,

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

TO OUR PATRONS, AND THE TRADE GENERALLY:—We are convinced that this Rose will prove of permanent value—indoors and out. Its continuity of flowering, vigorous growth, large flowers, beautiful in color and form—a true Tea—must commend it to all.

Strong plants Ready April 1st, \$1.00 each; \$10.00 per dozen.

All the Old, New and Forcing varieties on hand, at lowest prices.

WRITE FOR CATALOGUES AND PRICES.

California's New Rose "THE RAINBOW."
READY FOR DISTRIBUTION.

During the recent Rose Show of the California State Floral Society "THE RAINBOW" received more admiration than any of the thousands of flowers exhibited, and the highest comments of the press.

Stock in the best possible condition at the following prices: 1 Plant, \$1. 12 Plants, \$10. 100 Plants, \$75.

TERMS CASH.—Remittances may be made by Draft, Postoffice Orders, or Wells, Fargo & Co. Money Orders.

Description and Colored Plate of "THE RAINBOW" will be mailed on application

JOHN H. SIEVERS, 25 Post Street, SAN FRANCISCO, CAL.

HYDRANGEA GRANDIFLORA.

We ask the attention of Dealers and the Trade to our Large Stock of HYDRANGEA GRANDIFLORA, nice, well-grown plants at very low prices, viz:

HYDRANGEA GRANDIFLORA, 2 year, 2 to 2½ feet, strong. Price, \$7.00 per hundred; \$60.00 per thousand.

HYDRANGEA GRANDIFLORA, 2 year, second size, 18 to 24-in., good. Price, \$6.00 per hundred; \$50.00 per thousand.

Samples on application. Correspondence solicited.

Address THE DINGEE & CONARD CO., WEST GROVE, PA.

Geo. Jackman & Son

Begin to offer a large and well grown

Stock of the following:

ROSES—In choice and exhibition varieties.

RHODODENDRONS—Of the best named sorts, and Hybrid Seedlings well set with buds.

AZALEAS—Good named sorts, also Mollis and Ponticum set with buds.

CONIFERS—In large collection.

SHRUBS—Ornamental and Flowering.

FOREST TREES—Of sorts, all grown by thousands.

CLIMBERS—In variety, including their celebrated Clematis.

STOCKS—Fruit and Manetti, fine.

Catalogues free on application.

TERMS—Cash with order, or satisfactory trade reference from known correspondents.

WOKING NURSERY,

WOKING, ENGLAND.

SUGAR MAPLES.

The Finest of Shade Trees. Order now for Fall Delivery.

15 to 24 in. one plants..... \$20 00

25 to 30 in. one plants..... 30 00

MAGNOLIA TRIPETALAE..... 20 00

4 to 5 feet, beautiful stock..... 30 00

Submit list of wants for other sizes and varieties for low rates, packed 1.00 care here.

W. W. HENDRIX, Bowling Green, Ky.

A. BLANC,
ENGRAVER FOR FLORISTS.
PHILADELPHIA, PA.



Electro of this Cut, \$3.00.

LARGEST STOCK OF ELECTROTYPES OF PLANTS AND FLOWERS FOR FLORISTS' CATALOGUES, ETC.

Complete Catalogues free, deducted from first order. Agency for the sale of Electros of MESSRS. VIL-MORIN ANDRIEU & CO., (Paris.)

THE AMERICAN FLORIST

Subscription \$1.00 a year. To Europe, \$1.50.

Advertisements, 10 Cents a Line, Agate;
 Inch, \$1.40; Column, \$1.40;
 Cash with Order.

No Special Position Guaranteed.
 Discounts, 3 months, 5 per cent; 6 months, 10 per cent, 12 months, 20 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.
Orders for less than one-half inch space not accepted.

Advertisements for Oct. 1 issue must REACH US by noon, September 25. Address

THE AMERICAN FLORIST CO., Chicago.

AN ADVANCE SHEET, giving list of premiums to be competed for at the annual spring exhibition and bulb show of the Pennsylvania Hort. Society has been received. The exhibition will be held March 17 to 20 next. Copies of the schedule may be had on application to the secretary of the society, Mr. D. D. L. Farson, Horticultural Hall, Broad street, Philadelphia, Pa.

DAHLIA "RED VELVET."—Mr. D. S. Helfron, Washington Heights, Ill., has sent us a bunch of dahlias, among which are blooms of a seedling raised by him, and which he has named "Red Velvet." The blooms are of medium size and full double. The color is a deep, rich red, as will be readily imagined from the name. He states that the flowers are remarkably persistent with him.

THE Whilldin Pottery Co., of Philadelphia, send us a sample of their Excelsior flower pot. The bottom is made so as to provide for abundant drainage and ventilation. The improvement is very accurately shown by the engraving in their advertisement which appears on another page.

B. H. L.—Any florist is eligible to membership in the S. A. F. Make application to Secretary Stewart remitting \$3, which will pay your dues for the current year. This will entitle you to the printed report of the Boston convention.

FROST.—In the latitude of Chicago a frost sufficient to injure colous and similar tender plants may be looked for at any time from this date on.

MAKE ARRANGEMENTS now to keep an accurate record of the blooms cut from your roses and carnations during the coming season.

Catalogues Received.

L. Green & Son, Perry, O., nursery stock; E. H. Krelage & Son, Haarlem, Holland, Dutch bulbs; C. Hennecke & Co., Milwaukee, Wis., wire work; Haage & Schmidt, Erfurt, Germany, bulbs; The Storrs & Harrison Co., Painesville, O., plants, bulbs and nursery stock; P. A. Miller, San Francisco, Cal., tree, shrub and flower seeds; Hartman Mfg Co., Beaver Falls, Pa., steel picket tree and flower guards; Michel Plant and Seed Co., St. Louis, Mo., plant and bulbs; C. H. Allen, Floral Park, N. Y., gladioli, lilies and other bulbs; Alex. Dickson & Sons, Belfast, Ireland, bulbs; Siebrecht & Wadley, New Rochelle, N. Y., palms, ferns, orchids, etc.; J. C. Vaughan, Chicago, trade list bulbs, plants and florists' supplies.

Cut Flower Orders.

I would like to call your attention to one of the evils of the cut flower trade.

I send an order to A for cut flowers to be shipped at a certain time with instructions to answer at once if he can not fill order. I go to the train the next morning and do not get any flowers. I had all the flowers sold to various parties, and I not only lose the profits on the orders, but I also lose the customers. Who should stand the loss?

I occasionally send a telegram like the above to parties and receive a half supply. Who should stand the loss?

Why should not the retailers combine as the wholesalers do and when they make a mistake make them stand it?

I would like to have the question thoroughly canvassed so that I may know if I am justified in taking redress when such a thing happens. T. R. R. & Co.

[It seems to us Mr. R. states here only one side of the question. We print his query and when we hear the other side we can answer better; meanwhile if Mr. R. had actually sold the flowers why not ask a positive acceptance from the commission man?—Ed.]

News Notes.

ST. JOSEPH, MO.—A project is on foot to organize a horticultural society in this county.

WHEELING, W. VA.—The floral display at the recent State fair was unusually elaborate.

LUBINGTON, MICH.—William Gregory is building two new houses, each 95 feet long, and expects soon to add a seed department.

UTICA, N. Y.—The Florists' Club has appointed a committee to arrange for a show of chrysanthemums and other flowers in November.

LOUISVILLE, KY.—Willie Nanz, son of C. G. Nanz, the florist, died August 12. Mr. Nanz has the sympathy of his brother florists here in his affliction.

OSWEGO, N. Y.—At the Oswego Fair excellent displays of plants and flowers were made by Messrs. Cook, Northrup, Stewart, Beckstead and Mattoon.

NEW BRITAIN, CONN.—The recent flower show given by the Horticultural Club was very successful, the display being one of the best yet made by this organization.

KANSAS CITY, MO.—Albert F. Barbe has purchased a tract of land on Fifteenth street near Elmwood Cemetery, on which he intends to build greenhouses early next spring.

OIL CITY, PA.—The Society of Northwestern Pennsylvania Florists has been organized with headquarters in this city. P. S. Ingham is president and H. B. Beatty is secretary.

SIOUX FALLS, S. DAK.—J. J. Schumacher lost all his glass by hail August 3. Luckily he was insured in the Florists' Hail Association of America, which promptly paid the loss.

BOSTON.—Miss Flora Wax, daughter of a florist in this city has just obtained the first prize and medal at the Vienna Conservatory, and has already entered upon her career as an opera singer.

NEW YORK.—Alexander McConnell has discontinued the business at 729 Sixth avenue and will continue the same at 546

Fifth avenue, corner of 45th street, a branch established two years since.

DETROIT.—The dates for the chrysanthemum show to be given by the florists of this city have been changed to November 11 to 14 inclusive, one week later than the time previously announced.

LEXINGTON, KY.—Florists W. S. Bell and Mrs. D. Honaker made excellent displays of plants, flowers and floral arrangements at the recent fair. Mr. Bell received \$199 in premiums, and Mrs. Honaker \$50.

LOUISVILLE, KY.—Florists of this city are arranging to hold a chrysanthemum show in November in connection with a musical festival. All the charities of the city will be asked to take part, and the net proceeds will be divided among them. The affair will be under the auspices of the Louisville League.

GRAND RAPIDS, MICH.—F. A. Chapman has purchased land at the corner of Hall and S. Union streets upon which he will build greenhouses. The new place will be conducted as a branch. It will be under the charge of Mr. Chas. Bowditch, a nephew of Mr. Chapman, who has a partnership interest. The old greenhouses and store on Madison avenue will be conducted as usual.

KANSAS CITY, MO.—The Missouri and Kansas Inter-State Fair will be held in this city September 22 to 27. In the floral department premiums are offered as follows: Best and largest collection named varieties greenhouse, hot-house and bedding plants, by one professional exhibitor, \$50, \$25; Best floral design, \$5, \$2.50; Best and largest collection named varieties greenhouse, hot-house and bedding plants, in pots, by amateur, \$20, \$10; Best floral design, by amateur, \$5, \$2.50.

Coming Exhibitions.

October 28-Nov. 1, Atlanta, Ga.—Chrysanthemum show, Piedmont Exposition Co.

November 4-6, Orange, N. J.—Chrysanthemum show, New Jersey Floricultural Society.

November 4-6, London, Ont.—Chrysanthemum show, Forest City Florists' and Gardeners' Society.

November 4-7, Chicago.—Chrysanthemum show, Chicago Florist Club.

November 4-7, Erie, Pa.—Chrysanthemum show, Erie Chrysanthemum Club.

November 5-6, Providence, R. I.—Chrysanthemum show, Rhode Island Hort. Society.

November 10-14, Philadelphia.—Chrysanthemum show, Penna. Hort. Society.

November 11-13, Boston.—Chrysanthemum show, Mass. Hort. Society.

November 11-13, Montreal, Canada.—Fall show Montreal Gardeners' and Florists' Club.

November 11-14, Detroit, Mich.—Chrysanthemum show, Detroit Florists.

November 11-15, Cincinnati.—Chrysanthemum show, Cincinnati Florist Club.

November 11-15, Indianapolis.—Chrysanthemum show, Society of Indiana Florists.

November 12-13, Worcester, Mass.—Chrysanthemum show, Worcester County Hort. Society.

November 12-14, Hartford, Conn.—Chrysanthemum show, Hartford County Hort. Society.

November 20—, New York.—Exhibition New York Florist Club.

November — — —, Baltimore.—Fall exhibition Gardeners' Club.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,
And the Choicest ROSES for the
fall and winter season.

W. S. ALLEN, WHOLESALE DEALER IN CUT FLOWERS,

36 EAST 23rd STREET, NEW YORK.

ESTABLISHED 1877.

Price List sent upon application.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS,

No. 32 W. 30TH ST., NEW YORK.
Orders to be shipped will receive prompt attention.

HAMMOND & HUNTER, WHOLESALE DEALERS IN CUT FLOWERS,

51 West 30th St., NEW YORK.

WELCH BROS., WHOLESALE FLORISTS.

165 Tremont Street, BOSTON, MASS.

We make a specialty of shipping choice ROSES and
other Flowers, carefully packed, to all points in
Western and Middle States.

Return Telegrams sent immediately when it
is impossible to fill your order.

W. A. JURGENS, WHOLESALE FLORIST

27 Union Square, NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST

56 WEST 30TH STREET,

NEW YORK.

C. STRAUSS & CO.

Telephones 977 and 999.

WASHINGTON, D. C.

ROSE BUDS IN ANY QUANTITY SHIPPED
ON TELEGRAPHIC ORDERS.

N. F. MCCARTHY & CO. WHOLESALE FLORISTS AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carna-
tions always on hand. Return telegrams sent
immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL
Mention American Florist.

@Wholesale Markets.

Cut Flowers.

	BOSTON, Sept. 9.
Roses, Tea.	\$1.00
Fancy.	1.00
Gladstons.	1.00
Carnations.	.50 @ 1.00
Asters.	1.00
Valley.	1.00
Tuberose.	1.00
Sweet peas.	.25
Lupaceria.	.25
Sunflower.	1.00
Smilax.	12.00
Adiantum.	1.50

	PHILADELPHIA, Sept. 9.
Roses, Beauties.	\$8.00 @ 10.00
" La France, Mermets, Brides.	3.00 @ 4.00
" Perles, Niphotos.	4.00 @ 5.00
" Albany, Meteor.	4.00 @ 5.00
" Pierre Guillots.	5.00
" Mrs. John Laing.	5.00 @ 6.00
" Guntier.	2.00
Carnations, long.	1.00
Carnations, short.	1.00
Gladiolus stalks.	2.00
Tuberose stalks.	3.00
Asters.	.50 @ .75
Sweet peas.	.20
Smilax.	20.00
Adiantum.	1.00
Tuberose stalks.	3.00
Valley.	6.00 @ 8.00
Violets, single.	per bunch 45

	NEW YORK, Sept. 9.
Roses, Bon Silene.	\$3.00 @ 4.00
" Guntier.	1.00
" Perles, Niphotos.	2.00 @ 3.00
" Watervilles, Cousins.	3.00 @ 4.00
" Mermets, Brides.	2.00 @ 3.00
" La France, Albany.	4.00 @ 5.00
" Bernetts.	1.00
" Hoses, South.	2.00 @ 3.00
Beauties.	10.00 @ 15.00
Carnations, long.	8.00 @ 10.00
Carnations, short.	10.00 @ 15.00
Adiantum.	.50 @ 1.00
Longiflorum.	12.00
Bourbons.	.50
Roses in large lots \$10 to \$15 per 1000.	.50

	CHICAGO, Sept. 11.
Roses, Perles, Niphotos.	\$3.00 @ 4.00
" Guntier.	1.50 @ 2.00
" Bon Silene.	1.50 @ 2.00
" Mermets, La France.	2.00
" Brides.	5.00
" An. Beauties.	10.00
" Bernetts, Dukes.	4.00
Carnations, short.	.25 @ 1.00
Carnations, long.	1.00 @ 1.50
Culms.	10.00 @ 15.00
Smilax.	15.00 @ 20.00
Valley.	3.00 @ 4.00
Tuberose.	1.00
Violets.	.25 @ .50
Sweet peas.	.25 @ .50
Adiantum.	1.00 @ 1.25
Gladiolus.	8.00

WM. J. STEWART, Cut Flowers & Florists' Supplies

— WHOLESALE —

67 BROMFIELD ST., BOSTON, MASS.
Mention American Florist.

GEO. MULLEN, WHOLESALE FLORIST.

Florists' Supplies Always in Stock.

17 CHAPMAN PLACE,

(Off School St., near Parker House),

BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express
promptly filled.

Mention American Florist.

EDWARD C. HORAN, 34 W. 29th St., NEW YORK.

Having removed to more spacious quarters
(next door) with increased resources and facilities,
I am now prepared to furnish at short notice and
in any quantity, selected Roses of every variety,
also all other flowers in market.

Roses to be shipped are especially selected,
and packed under personal supervision.

SPECIALTIES:

American Beauty, La France, The Bride,
Mermets, Mme. Hoste, Duchess of Albany.

Return telegrams sent when orders or part of
them cannot be filled.

Mention American Florist.

E. H. HUNT, 79 LAKE STREET, CHICAGO, Successor to

VAUGHAN'S CUT FLOWER DEPT.

Our stock is cut with special reference to shipping
trade, which comprises the greater part of
our business. We therefore claim that we are
better prepared to attend to the wants of FLOWER
BUYERS, outside of Chicago, than any house in
the West.

OPEN DAILY: { Week days till 7 P. M.
 { Sundays till 12 M.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

We always have choice, Fresh Cut Flowers in
season. The best packers in the trade. Orders
promptly shipped. Store open until 7 P. M.
Sundays until 12 M.

WIRE WORK A SPECIALTY.
Extra designs made to order. Write for price list.
Consignments Solicited. Telephone 465.

C. H. FISK, WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES, 116 Dearborn Street, CHICAGO.

OPEN DAILY: { Week days till 7 P. M.
 { Sundays till 12 P. M.

WIRE DESIGNS IN STOCK.

FRESE & GRENZ, (Successors to G. W. FRESE.) Wholesale Dealers in CUT FLOWERS, And Florists' Supplies.

89 Wabash Ave., CHICAGO.
Store Open: Nights 7 P. M.; Sundays 12 M.

LaRoche & Stahl, Florists & Commission Merchants —OF— CUT FLOWERS.

1237 Chestnut Street, PHILADELPHIA.
Consignments Solicited. Special attention paid to
shipping. Mention American Florist.

CHAS. E. PENNOCK, WHOLESALE FLORIST

38 So. 16th Street, Philadelphia, Pa.

JOHN M. HUDSON, WHOLESALE

Commission Dealer in Cut Flowers,
1225 Market St., ST. LOUIS, MO.

Quick sales and prompt returns guaran-
teed. Consignments solicited.

CUT FLOWERS

The choicest Cut Flowers at lowest market rate
shipped C. O. D. Telephone connection. Use A. F.
Code when ordering by telegraph. For prices, etc.
Address:

J. L. DILLON, BLOOMSBURG, PA.

DIRECTORY.

Every Florist, Nurseryman and

Seedsman should have one.

AMERICAN FLORIST CO., Chicago.

Re Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN POTTER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

ROBERT LIVINGSTON says that Samuel Wilson's woods is the best place in which to write up catalogue matter.

The New York *Tribune* of August 27 reports A. C. Nellis in legal difficulties, charged with misapplying funds of the A. C. Nellis Co.

Mr. K. RAOUX of New York, the well known import agent, reports his intention to give up the business. He says: "I believe Congress will succeed in bringing upon us the worst financial and commercial crisis we have had in a long time, and I want to stand firm under."

A Regal Realization.

This is the way Mr. Burpee's seed firm appeared to the *Dorchester Intelligencer*. Was the organ of vision stimulated through any of the other senses? "Causing one to succumb by sublimity of regal realization," sounds more than flowery—great indeed is Fordhook!

"We are firm believers in the seemingly simple saying: 'Enough is enough, and too much is plenty,' but its truthfulness never impressed itself as powerfully as just here and now. We confess it—give it up—acknowledge the corn, and admit it on floral magnitude and magnificence. There are limits of space we may not bound over, and therefore it is that while loth to submit it to such brief review, we may only add to the long lines in their endless variety of tint crowning with beauty the high hills, facing westward, and stretched out to the frontier clear on to Vauxville, where the first faint glimmer of the morning sun gleams daintily touch this Alhambra of flowers in endless profusion, and where its gleams over departing day-time love to longest linger, as if unwilling to part from such a scene superb, it is away beyond our power to picture or proclaim. We look it over until its flashes of crimson fire, its perfection of perfume just results incensing one to succumb. We give it up, because it is away beyond our ability. Go gaze on it for yourself, love in it, thrill over it, fill your very soul with it, until, like us, you become color-blind, and even then you may indulge in only the conception, but not its sublimity of regal realization."

Contemptible Ignorance.

"What a beautiful odontoglossum!"
"That isn't an odontoglossum—what you call it! That's an *orkid*."

GLEDITSCHIA TRIACANTHOS.

(THREE-THORNED ACACIA.)

To off: **4 TONS** of first quality seeds,
—CROP 1890,—

At \$240 per Ton, or \$28 per 200 weight,
—TAKEN AT HAVRE—

For all other Horticultural French Seeds, quotations on Plants, Fruit stocks, you may need from LETELLIER & SON, of Caen, Calvados, France, address, as soon as possible to

ANDRE L. CAUSSE,
33 & 35 Liberty Street, NEW YORK CITY.

BULBS.

J. G. VAUGHAN, BULBS. CHICAGO. BULBS. BULBS. BULBS.



Full Line Fruit and Ornamental, Deciduous and Evergreen Trees, Grape-vines, Small-fruits, Shrubs, Roses, Winter-blooming, and Hardy-border Plants, Bulbs, Etc.

Standard and Dwarf Pears, Quince, Killmarnock Weeping Willows, European and Oak-leaf Mountain Ash in large supply. Every Nurseryman, Dealer and Planter should send for our **PACKING LIST** and **PRICE LIST**.

36TH YEAR.—700 ACRES.—24 GREENHOUSES.
THE STORRS & HARRISON CO., Painsville, Lake Co., Ohio.



R. VAN DER SCHOOT & SON, HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale Importers should write us for prices.

Our new Bulb Catalogue is now ready. Will be mailed free on application.

Primula Obconica.

Choice plants, 2½-inch pots \$3.50 per 100
3-inch pots 5.10 per 100

CARNATIONS.

Field grown. Ready September 15th. Portia, Hinz's White, Wm. Wayne, Christmas, Century, Chester Fride, etc. Price, \$7.00 to \$12.00 per 100.

GERANIUMS.

Choice lot of varieties, 3-inch pots, price \$3.50 per 100. Many other plants in the variety, cheap. Send for Wholesale Price List.

Address **N. S. GRIFFITH,**
JACKSON CO. INDEPENDENCE, MO.
(Independence is well located for shipping, being 8 miles east of Kansas City.)
Mention Catalogue.

BOXES. BOXES. MAILING AND CUT FLOWER BOXES.

Read what C. A. Reeser says for our 3-PIECE BOX:

GENTLEMEN—I write to tell how well pleased I have been with the mailing boxes you have furnished me during the past two years. I think I have ordered 50 or 60 thousand, thus giving them an extensive trial. I think there is nothing in the market that is so satisfactory, at least that has been my experience, and I have tested nearly, if not quite all the boxes in the market for that purpose.

Yours very truly, **C. A. REESER, JR.**
Send for price list, free. Sample nest 15c.

SMITH & SMITH, Kenton, Ohio.

Seed Trade.

Wanted a young man to travel. Must be of good address, and well up in seeds and bulbs. Desirable opening for the right party. Apply with references, stating experience and salary required. C. A. Reeser, Jr., care American Florist, Chicago.

Established 1835. SEASON 1890-91. Nurserymen & Florists' Supplies

GENTLEMEN—We have increased our list of supplies for the coming season, and are now able to offer a complete stock of all Packing Materials, as well as the necessary Field Tools. We hope to have your valued orders soon.

Wood Labels (printed and plain), all sizes.....
Wire Labels (pointed), for florists all sizes..... 10
Wire (iron), cut or in coils, for Labels..... 10
Wire (copper), cut or in coils, for Labels..... 30
Paper Sacks for grape culture, all sizes.....
Steel Needles, for baling..... each 50
Sewing Twines, in balls..... per lb. 18
Sewing Twines, on reels..... per lb. 18
Wool Twine (1 lb. balls, 10 lb. bales)..... per lb. 7½
Cotton Twine, for Building or Grafting..... 35
Baskets, all sizes.....
Burpee, 4-inch, seven to nine ounce..... each 80
Heavy Digging Spades, 15-inch..... each 1 50
Heavy Taper Spades..... each 1 50
Nails, 3-inch to 20d.....
Planting Dibbles..... 1 25
Hoop-iron, for strapping cases.....
Baling Rope (4-in), 50 lb. reels..... per lb. 6½
Tin Keyed Shipping Tags, printed or plain..... 7
Manila Paper, for wrapping Grafts..... per lb. 7
Metal Cellar Tags.....

Our Green Baling Rope has been entirely satisfactory every where the past season. It is the softest and cheapest baling rope ever offered tree shippers. Prices subject to market changes. Liberal discount to large buyers, and samples sent on application.

W. S. PHELPS' SONS,
23 & 25 E. Second St., DAYTON, OHIO.

Choice Stock Cheap.

Dracena Indivisa, 4-inch..... Per 100
Amelopsis Veitchii, 3 inch..... \$10 00
Latania Borbonica, 3-in, 1 year..... 8 00
Aspidistra Variegata, 5 inch..... \$9 per doz.
Pandanus Veitchii, 4-inch..... \$12 per doz.
ROSES FROM OPEN GROUND, Deliver in Dec.
Jacqueminot..... Per 1000
Hermosa..... \$70 00
Agrippina..... 60 00

J. H. CAMPBELL & SONS,
3601 Germantown Ave., PHILADELPHIA, PA.

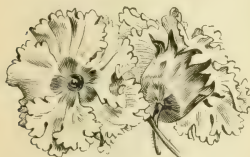
FERNS.

A. Cuneatum, fine plants for shifting.
ROSES, 3 inch, for immediate bedding, at usual prices. **SEND FOR LIST.**

M. A. HUNT,
TERRE HAUTE, IND.

Wintering Tender Aquatics.

In response to an enquiry we have secured the following from Mr. Benj. Grey: "The nymphæans and nelmubiums all winter best if the water is poured off and the roots allowed to remain in the soil where grown; the soil to be kept damp, and the pots or tubs to be placed in a greenhouse or cellar where a temperature of about 50° or more can be maintained; for southern sections of the country if the plants have been grown in basins or tanks outside, or even tubs in the ground, they may be covered with litter and boards and left where they have grown. For sections where there is little or no frost the plants if well established should winter without any special protection; this applies to the tropical sorts."



Gardiner's Superb Strains of CHINESE PRIMULAS

PRIMULA SINENSIS FIMBRIATA, choicest mixed, ex. ex., 100 seeds \$2.00; 500 seeds \$1.00; 1000 seeds \$2.
PRIMULA SINENSIS FIMBRIATA - FILICIFOLIA, choicest mixed (fern leaved), ex. ex., 100 seeds \$2.00; 500 seeds \$1.00; 1000 seeds \$2.00.
PRIMULA SINENSIS FIMBRIATA, double, scarlet, ex. ex., 100 seeds \$2.00.
PRIMULA SINENSIS FIMBRIATA, double, white, ex. ex., 100 seeds \$1.00.
PRIMROSE, Yellow, English, p.kt. 25 cts.
POLYANTHUS, New English Hybrids, p.kt. 25 cts.
POLYANTHUS, Cloth of Gold, p.kt. 25 cts.
Yellow, p.kt. 25 cts.

JOHN GARDINER & CO.
Seed Growers, Importers and Dealers.

Philadelphia, Pa., U. S. A.
Mention American Florist.

SMILAX.

800 Fine Strong Plants,
in 3-inch pots,

FOR SALE CHEAP.

WILLIAM SCOTT,
479 Main Street,
BUFFALO, N. Y.

Mention American Florist

DAHLIA FLOWERS.

FOR FAIRS, EXHIBITIONS, ETC.
WE ARE CUTTING ABOUT TWO THOUSAND PER DAY UNTIL FROST.
Price \$1.50 per 100.
VAUGHAN'S GREENHOUSES,
WESTERN SPRINGS, ILL.

PRIMULA OBCONICA SEED.

NEW CROP NOW READY.
Primula Obconica, p.kt. (1000 seeds), \$.75
Primula Floribunda, crop 1899, p.kt. (100 seeds), .25
Pansy Seed, Trimardeau, choice mixed, p.kt. .25
% ounce, 1.00

I. N. KRAMER & SON,
MARION, IOWA.

FIELD GROWN CARNATIONS.

Plants grown specially for Winter Blooming, strong and healthy, medium size.

BUTTERCUP, at \$10 and \$12.50 per 100, as to size.

CHRISTMAS and DAWN, at \$15 per 100.

GOLDEN GATE, a limited number of strong, field grown plants of this splendid pure yellow, at 75 cents each.

J. R. FREEMAN, a new cardinal colored; and **CHASTITY**, a new rosy pink colored; fine plants, at \$25 per 100.

WM. F. DREER, the largest and finest pink colored Carnation yet produced; a few splendid stock plants at 50 cents each.

OLD STANDARD SORTS, in assortment, at \$8 per 100.

EASTER LILIES. Some choice, home grown bulbs, 2 to 2½ inches in diameter, at 25 cents each; \$2.00 per dozen, delivered by mail.

OXALIS LUTEA. The finest large yellow winter flowering Oxalis. Extra large bulbs 5 cts. each, 50 cts. per dozen; ordinary size bulbs \$1.50 per 100, by mail prepaid.

CHAS. T. STARR, AVONDALE, Chester Co., PA.

10,000 CARNATIONS.

FINE FIELD GROWN PLANTS FOR WINTER BLOOMING.

BUTTERCUP, PRIDE OF KENNETT. Per 100
WM. SWAYNE, L. L. LAMBORN, MRS. F. MANGOLD, GARFIELD. \$10.00 to \$12.00
GRACE WILDER, CHESTER PRIDE, EDWARDSON, HINSDALE, HINZES 8.00 to 10.00
WHITE, PORTIA, SUNRISE, SNOWDON 6.00 to 8.00

J. L. DILLON, BLOOMSBURG, Pa.

FIELD GROWN CARNATIONS

FINE, HEALTHY STOCK OF

Silver Spray, L. L. Lamborn,
Grace Wilder, Florence,
Portia, Mrs. Garfield,

and many other varieties.

READY IN SEPTEMBER, AND VERY CHEAP.

Send for Price List, and
ORDER EARLY.

GEO. HANCOCK,
GRAND HAVEN, MICH.

CARNATIONS.

10,000 FIELD GROWN, READY IN SEPT.

MRS. FISHER, SNOWDON,
GRACE WILDER, VICTOR,
ALEGATIERE, FLORENCE,
HINZES WHITE, ANNA WEBB.
Also field grown CHRYSANTHEMUMS.

Will make Contracts Now.

R. T. LOMBARD, WAYLAND, MASS.

CARNATIONS.

Grace Wilder, White Grace Wilder, Florence, Etc. Also Bouvardias, strong ground plants, healthy stock, ready Sept. 1st. Send your order early.

PRIMROSES out of 2½-in. pots, \$4 per 100
SMILAX out of 3-inch pots, \$3 per 100
WM. A. BOCK, North Cambridge, Mass.

CARNATIONS.

Field grown plants, ready in September and October. Also

VIOLETS.

Large clumps for forcing of MARIE LOUISE and SWANLEY WHITE. Send for circular.

W. R. SHELMORE, Avondale, Pa.

CARNATIONS.

HINZES WHITE, GRACE WILDER, PORTIA, LAMBORN, TIDAL WAVE, and some choice New varieties, from field grown plants.

MARIE LOUISE VIOLETS.

PANSY PLANTS of the Jennings Strain, the finest for Winter bloom and Spring sales. Price low. Pansy Seed, 100 packages. Send for price list.

E. B. JENNINGS, box 75, Southport, Conn.,
CARNATION, PANSY AND VIOLET GROWER.

10,000 10,000 FIELD GROWN CARNATIONS.

Grace Wilder, Snowdon, A. Webb, Dawn, Florence and Orient, \$6 per 100.

Silver Spray, \$8.00 per 100.
The above plants are all first-class, strong and healthy.

400 SMILAX, 3 inch, at \$2.50.

GEO. E. BUXTON,
NASHUA, N. H.

CARNATIONS AND VIOLETS.

HINZES WHITE, PORTIA, CENTURY, ALEGATIERE, SILVER LAKE and others.

First Size, \$8.00 per 100; \$7.00 per 100.

Second Size, 6.00 per 100; 5.00 per 100.

VIOLETS M. LOUISE.

Fine clumps, perfectly healthy.

First Size, \$8.00 per 100; \$7.00 per 100.

Second Size, 6.00 per 100; 5.00 per 100.

AMPELOPSIS VITICILL.

Strong 2½-inch pots, \$5.00 per 100; \$4.00 per 100.

JACK ROSES.

3½-inch pots, \$8.00 per 100; \$7.00 per 100.

Address **J. G. BURROW,**

FISKILL, N. Y.

TIDAL WAVE.

GRACE WILDER, LAMBORN, MAY QUEEN, PRIDE OF KENNETT, and other fine Carnations.

Address **H. E. CHITTY,**
PATERSON, N. J.

Mention American Florist.

Field Grown Carnations.

Ready Sept. 1st.

Field Grown Stevias.

Field Grown Chrysanthemums.

Pot Grown Chrysanthemums.

Fine lot of M. Neil Roses.

Ready now.

WRITE FOR PRICES TO

PROBST BROS. FLORAL CO.

1017 Broadway, KANSAS CITY, MO.

Mention American Florist.

Carnations.

Per 100

Century, the clumps, \$10.00

Smilax, stocky, from Sellers' beds, 2.00

3-inch pipe, 7 cents per foot. Cash with order.

J. F. STICKEL, Lexington Ave., N. Cambridge, Mass.

UNITED STATES NURSERIES, SHORT HILLS, N. J.

Our Wholesale Catalogue is ready, and will be forwarded to anyone in the trade who has not received same. We offer the following:

PALMS in all leading varieties and sizes.
FOLIAGE PLANTS of any description.
FLOWERING PLANTS, the best for the florist's use.

FERNS, for Dinner Table Decoration.

HARDY HERBACEOUS.—Now is the time to plant these useful plants.

ORCHIDS AND CYPRIPEDIUMS.—Descriptive list with cultural directions for growing the best Orchids suitable for florists just issued, and will be forwarded to anyone interested in this beautiful class of plants by applying to

PITCHER & MANDA,

The United States Nurseries, SHORT HILLS, N. J.

We guarantee 100 cents in plants for every dollar.

FERNS. PALMS. 40,000

Fern Seedlings, in the following varieties, at \$5.00 per 100, from 2½-inch pots.

ADIANTUM	PTERIS TREMULA.
" C. ROENBECKII.	" SERRULATA var.
" GRACILLIMUM.	Per doz. Per 100
LATANIA BORBNICA, 4-inch pots,	\$3.00 \$25.00
" " 3-inch pots,	1.80 15.00
" " 6-inch pots,	10.00
PANDANUS UTILIS, 6-inch pots,	10.00

Also a large stock of **MUSA SUMATRANA**, (the best of all var. Bananas, \$1.00 each; \$80.00 per 100.

Address
GEO. WITTBOLD,
School & Halsted Sts., LAKE VIEW, CHICAGO.

Palms and Dracenas.

LATANIA BORBNICA, 3-in. pots, strong, 15c. each.
CHAMEROPS EXCELSA, 3-in. pots, strong plants, 12½c.; 2-in. pots, small, 6c.

CORYPHA AUSTRALIS, 2-inch pots, 8c.

WASHINGTONIA ROBUSTA, 4-inch pots, 25c.; 3-inch pots 15c. 10 to 15 other varieties in 10 to 12-in. pots, some good specimens at low down prices. Over 100 **CYCAS REVOLUTA**, from \$1.00 to \$5.00 and \$12.00, according to size.

DRACAENA TERMINALIS, 5 in. pots, strong plants, 40c.; 4-in. pots 25c.; 3 in. pots 12c.; 2½-in. 8c.
DRACAENA INDIVISA, 5-in. pots, strong plants 35c.; 4 in. pots 20c.; 3-in. 12c.; 2-in. 5.00 per 100.

Send me your orders, I feel sure I can give satisfaction.

W. J. HESSER,
PLATSMOUTH NEB.
Mention American Florist.

A. LIETZE,

P. O. Box 644, RIO DE JANEIRO.
PALM SEEDS, ORCHIDS,
NEW CALADIUMS.

For price list apply to

Messrs. ADOLPH V. ESSEN & CO.,
Gr. Reichenstrasse, 73, Hamburg, Germany.

JAPANESE PLANTS, Trees, Shrubs, Bulbs, Seeds, Etc.

offered at low prices by

FELIX GONZALEZ & CO.
Direct Importers and Exporters,
303 to 312 Wayne and Crescent Aves.,
SAN FRANCISCO, CAL.

Wholesale Catalogue mailed free on application.

HARRIS AND CALIA BULBS,
At reduced rates. Write for prices.
THE WISCONSIN FLOWER EXCHANGE,
133 Mason Street, MILWAUKEE, WIS.

ROSE HILL NURSERIES.

PALMS, FERNS, ORCHIDS,

AND GENERAL STOCK OF DECORATIVE PLANTS.

Send for Special Trade List.

SIEBRECHT & WADLEY, New Rochelle, NEW YORK.

ORCHIDS AND PALMS SPECIALTIES.

The stock is of such magnitude that without seeing it it is not easy to form an adequate conception of its unprecedented extent.

FRUIT TREES, ROSES, AZALEAS, CAMELLIAS,
Bouvardias, Cyclamen, Ericas, Epacris, Solanum, Tree Carnations, and other
WINTER AND SPRING FLOWERING PLANTS,
Of fine quality and immense numbers. INSPECTION INVITED.

THE GLASS COVERS AN AREA OF UPWARDS OF 315,000 SUPER. FEET.

MR. EDWARD V. LOW hopes to arrive in the United States about first week in September, and will remain for six or eight weeks, when he will have much pleasure in calling upon intending purchasers, or answer communications addressed to him at HOFMAN HOUSE, NEW YORK CITY.

HUGH LOW & CO.,
CLAPTON NURSERY, LONDON, and BUSH HILL PARK, ENFIELD, ENGLAND.

CHARLES D. BALL,
HOLMESBURG, PHILADELPHIA, PA.,

PALMS, FERNS AND DECORATIVE PLANTS.

My establishment is devoted exclusively to the culture of such plants. The stock is one of the largest, and CANNOT BE EXCELLED IN QUALITY. Prices always moderate.

TRADE LIST ON APPLICATION.

ORCHIDS! ORCHIDS!

Many additions of Choice New varieties this season.

Send for New Catalogue.

WM. MATHEWS,
UTICA, N. Y.
CUT BLOOMS AT ALL SEASONS.

ORCHIDS! ORCHIDS!

Lowest Prices Ever Offered.

Send for special prices of **SURPLUS STOCK** which must be sold now.

Established 1864. **BRACKENRIDGE & CO.,**
Govansstown, (Baltimore), Md.

PRIVATE COLLECTION OF ORCHIDS FOR SALE.

All Standard Varieties. Many Rare Plants.

The above collection of the late GENERAL L. PERKINS, of Trenton, N. J., will be sold in its entirety to close his estate. Apply to

LEWIS PERRINE, Jr., Atty., Trenton, N. J.

FARLEYENSE

in 2½-inch, ready to shift into 4-inch.
\$25.00 per 100.
\$200.00 per 1000.

FISHER BROS. & CO.,
MONTVALE, MASS.

SURPLUS STOCK.

A few hundred *Sulax* from 2½ in. pots at \$3 per 100. Also a few *Farquhams* at \$1.50 per dozen, 2½ and 4-inch pots. Address

A. F. PRINCE, Hineckley, Ill.

THE SEVEN OAKS NURSERIES.

NEW CROP PALM AND PANDANUS SEEDS.

We have just received a large invoice of the following, which we can offer at 20 per cent below the usual prices:

Latania Borbnica, 65c. per lb.: \$55 per 100 lbs.
Thrinax elegans, \$5 per Thousand Seeds.
" *argentea*, \$3 per " "
" *parviflora*, \$2.25 " "

Livistona oliviformis, 10 seeds, 75c.: 100 \$6.
Pandanus utilis, 100 seeds, 85c.: 1000 \$7.50.

5000 feet of sound *Dracaena candel. Fragrans*, *Terminalis*, and *Farrier*. State quantity wanted, and price will be given on application.

R. D. HOYT,
BAY VIEW, FLORIDA.

PALMS.

LATANIA,

KENTIA,

ARECA.

Apply to **EDWIN LONSDALE,**
WYNDMOOR, CHESTNUT HILL,
PHILADELPHIA, PA.

ORCHIDS. NEW AND RARE PLANTS, ETC.

A very extensive stock of Orchids:
EAST INDIAN, MEXICAN, CENTRAL & SOUTH AMERICAN, etc. **PITCHER PLANTS**, a large collection.
NEW AND RARE HOTHOUSE AND GREENHOUSE PLANTS, carefully grown, at lowest rates.
Finest Winter Blooming Roses, Clematis, Dutch Bulbs, Fruit and Ornamental Trees. Catalogues on application. **JOHN SAUL, Washington, D. C.**

Largest Stock of PALMS in the Country.

Largest Stock of ORCHIDS in the Trade.

— ORIGINAL AND LARGEST GROWERS OF —

LILIUM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

— BULBS NOW READY FOR DELIVERY. —

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 140 in length, of a crop of *Liliium Harrisii* in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fills in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his own use. We hear it said occasionally that *Liliium Harrisii* flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing."

The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

— HALF A MILLION BULBS. —

Be sure you get the genuine *Liliium Harrisii*. In order to secure "the true variety," purchase our Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant *L. longifolium* in Bermuda, planting it with *Harrisii* to increase their stock rapidly when *Harrisii* was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. "Mixed Bulbs" being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

S. A. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

Many of our friends agreeing with us that the award on Standard Pots at our late Exhibition was an unjust one, we shall use the advertising columns of the AMERICAN FLORIST to state our side of the question.

We asked the Executive Committee to give us an impartial committee of award. The following propositions should convince anyone whether **WE FEEL** that we have had such a Committee.

The following is the text of the matter in question, taken from the official programme:

"Manufacturers of FLOWER POTS are notified that a Certificate of highest merit will be awarded to that display of Pots shown at this exhibition, which most nearly approaches the Standard. Such displays shall consist of not less than one dozen of each size, made from working moulds and not turned down."

One member of the Committee of Award said that we were not entitled to any award because we exhibited but fifteen sizes, while others exhibited seventeen, and that seventeen cuts were represented on a white sheet of Standard Pots. We fail to see that the award was offered for any specific number of sizes, but that twelve of each size should be presented. **A MUCH MORE IMPORTANT PART OF THE COMMITTEE'S ANNOUNCEMENT** was that the pots should be **MADE FROM WORKING MOLDS AND NOT TURNED DOWN**. We do not hesitate to make this public statement that the Flower Pots to which was awarded the Certificate of highest merit were **VERY MANY** of them **EITHER GROUND, FILED, TURNED or SAND-PAPERED** to size, and for that reason alone were not entitled even to a measurement by the Committee of Award.

WE WISH TO MAKE TWO PROPOSITIONS:

First. We will put up \$1,000 in Cash and submit the same pots exhibited at the late Exhibition against the pots exhibited by our competitor, and leave it to an impartial committee of three, and if our pots do not come the nearest to the requirements, we will present the \$1,000 to the fund of the Society of American Florists.

Second. We will put up \$2,000 in Cash and produce 500 pots of each size from 1½-inch to 7-inch inclusive, and 250 pots each from 8 inch to 12-inch inclusive, making 7,250 pieces, made from the same moulds in which the pots we exhibited were made, and all shall be of the proper thickness in all respects, against an equal number of pots made from the same moulds that produced the pots receiving the award, and if an impartial committee do not give us the award we will present the money and the pots to the Society of American Florists for an experiment station. And if we are allowed to choose one of the committee of three, we will select our honorable Treasurer Mr. M. A. Hunt, of Terre Haute, Ind.

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How any newspaper man with any common sense whatever can express belief in any such absurdity is one of those deep, dark mysteries which will probably never be revealed. We should like to get hold of an insect which would kill off all the fool-editors. If we could we would turn some active specimens loose in the vicinity of Frankfort.



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5 1/2 inch, per 100, \$4.00	10 1/2 inch, per 100, \$4.25
6 1/2 inch, per 100, \$4.25	11 1/2 inch, per 100, \$4.50
7 1/2 inch, per 100, \$4.50	12 1/2 inch, per 100, \$4.75
8 1/2 inch, per 100, \$4.75	13 1/2 inch, per 100, \$5.00
9 1/2 inch, per 100, \$5.00	14 1/2 inch, per 100, \$5.25
10 1/2 inch, per 100, \$5.25	15 1/2 inch, per 100, \$5.50
11 1/2 inch, per 100, \$5.50	16 1/2 inch, per 100, \$5.75
12 1/2 inch, per 100, \$5.75	17 1/2 inch, per 100, \$6.00
13 1/2 inch, per 100, \$6.00	18 1/2 inch, per 100, \$6.25
14 1/2 inch, per 100, \$6.25	19 1/2 inch, per 100, \$6.50
15 1/2 inch, per 100, \$6.50	20 1/2 inch, per 100, \$6.75
16 1/2 inch, per 100, \$6.75	21 1/2 inch, per 100, \$7.00
17 1/2 inch, per 100, \$7.00	22 1/2 inch, per 100, \$7.25
18 1/2 inch, per 100, \$7.25	23 1/2 inch, per 100, \$7.50
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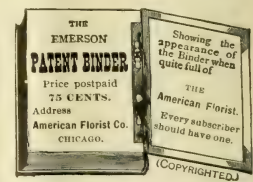


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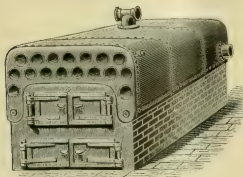


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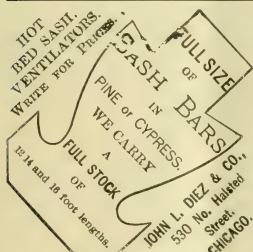
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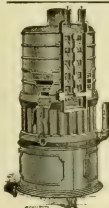
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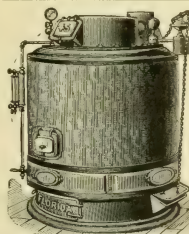
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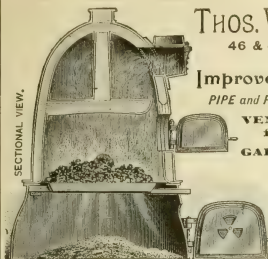
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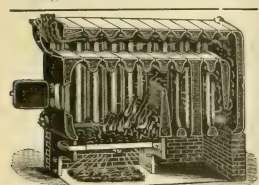
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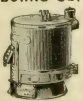
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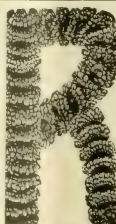
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THE AMERICAN FLORIST



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Vol. VI.

CHICAGO AND NEW YORK, OCTOBER 1, 1890.

No. 124

THE AMERICAN FLORIST

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Entered as Second-Class Mail matter.

Published on the 1st and 15th of each month by

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$1.50.

Address all communications to

AMERICAN FLORIST COMPANY,
54 La Salle Street, CHICAGO.

SOCIETY OF AMERICAN FLORISTS.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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PLEASE BEAR in mind that anonymous communications go direct to the waste basket. An article may be signed by an initial or pseudonym, but it must be accompanied by the author's real name and his address for our own information, in order to receive any attention from us.

WE SHALL publish in an early issue some very interesting records of blooms cut from various sorts of roses. Make arrangements now to keep a record of your clip during the coming season to assist in solving the problem of cost of production.

WE HAVE in type a number of very interesting articles which have been crowded out of this issue through pressure on our columns. They will appear in our next number.

AS WE go to press the weather is cold enough in Chicago to be a forcible warning to florists to hurry under cover any tender stuff not yet in.

THE PRESENT cold weather in the vicinity of Chicago will probably finish up the outdoor flowers.

Beautiful Wellesley.

Mr. H. H. Hunnewell's gardens at Wellesley, near Boston, are regarded as the most beautiful and complete in the country, and in them all branches of horticulture and floriculture are well represented.

The ornamental grounds are very extensive and consist of broad unbroken lawns, groups, belts and extensive plantations of trees and shrubs, an "Italian garden," regular flower garden, rockeries, aquatic garden, vegetable and fruit gardens, and extensive ranges of fruit forcing greenhouses and spacious glass houses for the cultivation of all manner of decorative plants. And the gardens in their every detail are cared for by Mr. F. L. Harris in the most masterly style, and supported by their proprietor in the most munificent manner. They are the Mecca of every gardener and florist in the country.

The conservatories attached to the mansion house consist of a large glass structure for palms, ferns, cycads, screw pines and other tall spreading plants; and two corners of it are partitioned off for orchids in bloom. On the balcony outside and under a canvas covering were massed all the gayest treasures of the greenhouses, and this show is maintained all summer long. Lilies, begonias, fuchsias, hydrangeas, acimenes and the like added to the display.

Some distance from the mansion house and near the vegetable gardens we find a village of greenhouses—houses filled with all manner of plants. There were orchid houses, stove plant houses, cool houses, flowering plant houses, and houses for Australian plants. And also ranges of houses devoted to grape vines, peaches, nectarines, plums, figs, grapes and other fruits. And one of the most striking features of the place was the outdoor tank of tropical aquatics.

The "Italian Garden" occupies a steep high embankment grading abruptly from the main gardens down to the Waban lake. It is arranged in a series of grass-clad terraces on which are planted a multitude of formally clipped and trained deciduous and evergreen trees and shrubs. It is well illustrated in the right hand corner figure of the heading on the front page of the FLORIST, and it is the only systematic effort at Italian or Topiary gardening in the country. Among the evergreens clipped into many forms are hemlock and Norway spruces, white pine and retinosporas and junipers of sort. Deciduous trees were represented by European larch, American and European beeches, box elder, European lindens and Norway maples. On pedestals along the terrace at the top of the embankment, Irish yews, agaves and other vase plants were arranged. We enter one end of this garden from a sloping grade of the pinetum, and at the other end pass by masses of kalmias and azaleas and rhododendrons to the rock garden through which we ascend by rustic steps and pathways to the plateau above.

The Pinetum, or more properly the garden of coniferous trees, extends from the entrance gate along to the right till we reach the lake. The lay of the land is rolling and the soil gravelly, but the trees are beautiful examples of health, happiness and attentive care. Most every obtainable species of pine, fir, spruce, juniper, arbutus, retinospora and the like, hardy in Massachusetts, are here represented, and judging from the unusually large specimens of many rare trees, they must have found a resting place at Wellesley as soon as they were first introduced. Conspicuous among the handsomest were *Picea pungens*, *P. Englemanni*, *P. polita*, *P. Orientalis*, *P. Ajacensis*, and some fine blue forms of *P. alba*; *Abies Nordmanniana*, *A. Cilicica*, *A. Cephalonica*, *A. brachyphylla*, several forms of *A. concolor* labelled *Parsonii*, *Lowiana* and *lasiocarpa*, *A. Veitchii*, etc.

A splendid specimen of *Pseudotsuga Kempteri* stands near Mr. Hunnewell's residence, in the vicinity of which are also many handsome deciduous trees as beeches, magnolias, weeping elms, etc. And Mr. H. showed us an oak tree on his lawn which was the only tree on his place in 1852 when he began planting there. The collection of Japanese maples in this garden is not only one of the most complete anywhere, but the individual plants are among the largest in the country.

Here we find the largest collection of rhododendrons in America, and the same of Ghent azaleas. The rhododendrons are divided into three groups, namely, perfectly hardy or those that are planted out permanently; half-hardy, or those that are planted out of doors in summer and lifted and brought inside to sheds and cellars over winter; and greenhouse or tender rhododendrons of which *Javanicum*, *Princess Royal*, *Taylori*, *Edgeworthii* and *Princess Alice* are good examples. The hardy rhododendrons are massed into large groups and belts and hanks in several parts of the grounds and associated with other trees, usually forming a foreground for taller subjects.

Some years ago Mr. Harris named for me the following list of rhododendrons as being perfectly hardy at Wellesley, namely, *Album elegans*, *Alexander Dancer*, *Candidum*, *Charles Dickens*, *Delicatissimum*, *Everestianum*, *H. H. Hunnewell*, *H. W. Sargent*, *John's purple*, *Lord John Russell*, *Mrs. Lee Clutton*, *Mrs. Milner* and *Purpureum elegans*. And this is a very reliable list. But by further experiment Mr. Hunnewell has found that many other varieties before now looked upon as only half hardy have proven equally hardy in his grounds. Among these he names *Caractacus*, *Charles Bagley*, *Giganteum*, *Guido*, *James Bateman*, *Lady Arundel*.

strong, Lady Clermont, Kettledrum, Maximum, Wellesleyanum, Minnie, Scipio and Sherwoodianum.

During the visit of the Florists' Convention to Wellesley Mr. Hunnewell himself most kindly piloted us around his magnificent grounds, and those of us who were immediately along with him will ever remember how warmly he advocated the cause of the hardy rhododendron and pointed out to us with pride the happy examples of the cultivation of this noble flowering evergreen upon his estate. The not uncommon impression that the rhododendron is a tender shrub needing a south-facing exposure and sunny situation is erroneous and its practice injurious. In such a situation the soil is apt to become hot and dry in summer, just the conditions most unfavorable to the well-being of the rhododendrons which prefer a cool, moist soil. And in proof of this he showed us masses of rhododendrons growing in the coldest and most windswept portions of his grounds and which were in the most luxuriant health. In order to maintain the soil moist and cool about the roots all summer he has the ground about the plants heavily mulched with forest tree leaves held in place by a scattering of pine needles over them. And every few years deep ditches are cut and filled in again between the rhododendron beds and neighboring grass-feeding trees, so as to cut away the encroaching roots of the trees.

The half hardy rhododendrons are the more tender forms of a progeny (hybrids, crosses and varieties) obtained from *R. Catawbiense* and *Ponticum* hybridized with *R. arboreum*, a scarlet-flowering Himalayan species. They were represented in the form of bushes, standards and half standards, and occupied mostly places in the vicinity of the hedges and tent ground. Before last winter they were in the best of health and the roots and stems were filled with sap and life, but their roots and transferred to immense cellar buildings constructed in the margin of the woods behind the barn. Here they are stored close together and allowed to remain till the following April when they are retransferred to their summer quarters to bloom and grow. Of course this treatment is very enervating, at the same time the plants bear up under it splendidly and contribute nobly to the grand display of rhododendrons for which Wellesley is world renowned. Among these half hardy varieties are *C. S. Sargent*, *Duchess of Edinburgh*, *Duchess of Sutherland*, *F. D. Godman*, *Helen Waterer*, *J. Marshall Brooks*, *J. McIntosh*, *Joseph Whitworth*, *Lady Grey Egerton*, *Marchioness of Lansdowne*, *Meteor*, *Mrs. Arthur Hunnewell*, *Mrs. John Clutton*, *Mrs. Shuttleworth*, *Purity*, *Ralph Saunders*, *Rosabel*, *Stella*, *The Queen* and *William Austin*.

The hardy azaleas include the multitude of Ghent varieties, also mollis in its many forms, and our native species as *A. nudiflorum*, *scabellulacium*, *arbutum* and *variegatum*. They all occupy permanent positions, mostly in the vicinity of where the dining tables had been placed. They too had been mulched and cared for much in the same way as the hardy evergreen rhododendrons.

In addition to the hardy azaleas a large assortment of Indian (or greenhouse) azaleas are grown, some for conservatory decoration and others to be retarded till rhododendron time when they help form their grand display. *Decora*, *Exquisite*, *Daphne*, *Creterion*, *Bride of Abydos*, *Variegata*, *Flower-of-the-Day*, *Marquis de Lorne* and *Beatrice* of *L'Etoile* are among those retarded till May.

The multitude of yews, hollies, huncles

and the like evergreens that are not hardy but which were so freely planted about in the grounds are wintered in cellars and set outside in summer, just as described in the case of half hardy rhododendrons.

W. F.



Cælogyne Cristata for Cut Flowers

As it is an open question with some concerning the commercial value of orchids as cut flowers; some facts pertaining to *Cælogyne cristata* may be of interest as bearing upon this question.

No orchid is of more easy cultivation than this one, and when given the proper treatment, its flowers are produced in great abundance, and as evidence of this, mention is made of a few cælogynes, grown for the purpose of selling the flowers.

Nearly four years ago four plants of *Cælogyne cristata* were purchased. These plants were in 8-inch pans, and as they have grown rapidly, they have been twice divided; and now the four plants have multiplied into twenty-five—some in 10-inch pans and some in 12-inch.

The last division was effected this spring after the plants were through flowering. At the time of this last flowering the plants numbered twelve, and from these twelve plants were cut 100 flowers. *Cælogyne* flowers at wholesale would not be valued at less than \$5 per 100. And often they sell for much higher figures than this. Estimating the flowers then at this low value we have here a return of \$75 produced from a bench space of about 24 square feet. It would be difficult to furnish examples of a more remunerative crop.

The flowers are of a very desirable nature for a florist. They can be used for wedding bouquets, funeral pieces, loose flowers, or in any way that a florist requires. As they can be cut with a moderate stem they can be readily arranged into corsage bouquets. In common with most orchid flowers, cælogynes can be kept for a long time if care is taken to prevent dampness from settling upon the petals. There is some variation in the forms of the flower, and it is advisable for any one about to purchase this orchid to endeavor to procure the variety that produces the largest flowers.

The plants are easily grown, and it is a wonder that any one avoids their cultivation from doubt of the ability to succeed. They can be readily grown in an ordinary greenhouse, where a variety of other plants are, and it is a mistake to suppose that it is necessary to remove them from place to place in the greenhouses, for we have had the best success by leaving them upon the same bench all the year round. The only time that it is advisable to do so, is, when there is the object of retarding the blooming period. This can be prolonged by placing some in a cooler house, supposing that the plants have been kept in a medium temperature.

The flowering period generally commences about the beginning of February, and by allowing the plants to flower in batches, some can be kept until the beginning of April.

Cælogynes may be had in flower for Christmas. But an inexperienced cultivator would not be able to succeed in this particular. A novice would do bet-

ter to allow the flowers to appear at the natural period. We cannot take plants that flowered one season in March and then expect that by forcing we can have them the next season at Christmas. To attempt to do so hasten them would very likely result in failure of crop. The only way to gain this end is to hasten the blooming period by degrees. With attention as to temperature, plants that commenced to flower on the 1st of March one year, can be had in flower at the 15th of February of the next year. Thus by this gradual hastening of the blooming period, cælogynes may be induced to open their flowers by Christmas, and, of course, when this is so, their commercial value is proportionately increased.

When it is thought best to retard the blooming period, so that these flowers may be of use at Easter, care must be observed as to the time the plants are placed in cool temperature. A mistake will be made if this is done before the flower buds are well developed. The writer learned this by experience, for placing some plants in a cool house—in order that the flowers might be used at Easter—before the flower buds were well advanced, he discovered too late that a check was given to development, from which they did not recover, and no flowers were the result. When the buds are formed no harm is done by a lowering of temperature.

Cælogynes do well in pans—filled two-thirds with drainage. Turfy loam with the soil all shaken out is the best material in which to pot them. A little charcoal mixed with the soil is an advantage. Let the potting material be elevated considerably above the rim of the pan, making a mound of it. Separate the pseudo-bulbs—if matted together—leaving them in pieces of two and three together, and place them all over the material in the pan. A little sphagnum placed on top of the fibrous material upon which the bulbs may rest is an advantage. These can be retained in their places by staples of wire.

After potting let them be kept moderately warm, well-watered, and shaded from the sun. As growth develops plenty of water is required, and during the hot days of summer syringing twice each day will be beneficial to them.

After growth has ceased but little shade will be required. But they should never be kept dry until the flower buds are well advanced, and even then, water must not be too much withheld.

There is no reason but lack of knowledge why cælogynes should not become a staple flower. Those florists who succeed with *Cælogyne cristata* insigne, and find that in cultivation pays, can also grow this orchid with success, and receive convincing proof that it remunerates the grower for his labor. The plants are not expensive to purchase. And as they can be increased so rapidly, a paying stock can soon be had. To those florists who retail their own flowers this orchid is especially desirable. As we must have variety in the stock of cut flowers, and also a very easy plant in cultivation, and so easily grown as *Cælogyne cristata*, deserves their special mention.

Albany, N. Y. ALFRED E. WHITTELL.

Phalenopsis Amabilis.

This species is the most useful and satisfactory of a very popular genus. It was introduced from the Philippines nearly half a century ago, but for many years it was a very rare plant in cultivation, and also a very difficult one to grow, owing to the absurd ideas of culturists of those days that this plant as well as other so-called air plants needed special houses to



CŒLOGYNE CRISTATA.

grow them; and also gave them special treatment by treating them to a slow death in hot, steamy houses.

For many years it was a rare sight to see a well grown plant of this species, or even one in bloom. But now larger importations and more rational treatment has rendered this orchid one of the popular kinds for florists to grow for cut flowers. It produces its large chaste flowers plentifully on long arching spikes; these are often branched and continue to

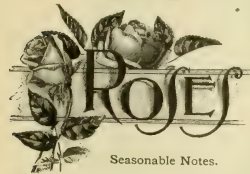
grow and produce new flowers from the apex for many months. The individual flowers last about five to six weeks in a moderate and dry atmosphere. A good plan is to cut the spike as soon as the flowers have reached perfection, to within six or eight inches of the base, and if the plant be strong it will shortly throw side branches—and often a new spike from the base.

P. amabilis grows equally well in pots, pans, and cylinders or baskets of clay or

wood; pans or baskets are best because more easily handled and can be hung up so as to allow other plants to be grown underneath. Whatever may be used should be well drained. The compost may consist of good fibrous peat and sphagnum moss (I have mixed nodule of dry cow manure with good results). It is advisable not to use too much potting material as it is liable to get sour on account of the quantity of water these plants need.

The growing season starts about April and from this time until October, advantage should be taken of all fine weather to encourage vigorous growth by giving abundance of heat and water and above all plenty of air at all times. Only sufficient shade should be given to keep the plants from burning, 60° to 62° is a good temperature for the winter months, but care should be taken that the plants do not get too wet.

Slingerlands, N. Y. F. GOLDRING.



Seasonable Notes.

Now that it may be considered that the season has begun for forcing roses for their bloom, it will be well to get everything in proper running order as soon as possible. All early planted roses should be tied up as soon as possible to enable air and light to have free access to all plants alike. Keep all dead leaves picked off and weeds pulled up. Should cloudy weather prevail very little water will be needed at present as the roots will not have fully occupied the soil yet; and till fires have to be kept burning regularly every night it is advisable to water rather sparingly except in very bright weather. Give all the air possible, starting as soon as the sun gets fairly on the glass, giving only very little at first but gradually increasing it as the temperature rises; by giving air early in the morning say as soon as the thermometer shows a rise of three or four degrees over the night temperature and increasing as above it will do no harm if it runs up to 80° during the middle of the day, providing of course there is abundance of ventilation on at same time. Equal care should be taken in reducing the air and avoiding cold draughts as much as possible at any time. Do not let the temperature (without fires) fall below 60° at night if possible; rather than allow it to do so it's much better to put enough fire heat in to take the raw damp air off.

Where the plants are growing freely and have no mulching yet, a light dressing could now be put on with advantage to them, but at this season a heavy mulching is not desirable, in fact, often does more harm than good as it is very apt to keep the soil a little too damp, besides it prevents the roots from getting the desired amount of air. Should mildew show itself lose no time in applying sulphur as previously directed, but as soon as the nights get cool enough to warrant making the pipes at all hot, then sulphur mixed up like a thick paint either with linsed oil, water or water and skim milk and applied to the pipes while they are hot will effectually destroy mildew and if left on the pipes will help materially to keep red spider in check.

JOHN N. MAY.

Solid Beds Versus Benches.

Your correspondent Mr. Grant J. Maple (page 63) and many others are in doubt as to the best method of the two for forcing roses, and I am I think laboring under a slightly mistaken idea about it. There are certain classes of soil and other

conditions also which make it more desirable to grow roses in solid beds than in benches, but these are not general by any means. If it were so why would so many hundreds of houses all over the country that formerly had roses planted in benches and are now furnished with benches and have the roses growing on them to the entire exclusion of solid bed plan? It may be well to ask here how this change has been brought about? Not by mere chance or whim; neither is it because it is less expensive to grow them by this method; on the contrary it has been brought into almost general use by careful experiment, and in many cases which have come under my own observation by being as it were forced upon conservative men, they finding to their cost that they were being left in the race and had to make the change to keep up; and such men did not change all their cherished system in a day or a year, but after giving the two methods a fair and impartial trial they were very glad to adopt the most expensive method; not because it merely cost more money, but because they could get much better returns for the money invested.

The solid bed system requires less care in every way, and for that reason alone commends itself to those who like to take life easy; and where roses are wanted more in spring and summer than in winter I would say emphatically grow your plants so, but where roses are wanted in winter, and the houses they are to be grown in wanted to pay the best interest on the capital invested, then you will have to go to the bench system for your answer. I do not wish by this to infer that roses in solid beds will not and do not produce fine flowers in winter, on the contrary I have found in my experience some varieties that will do fairly well, but I have also found by experience that the same varieties do a great deal better and pay me a much better interest for the money and labor invested when grown on benches, but then we want our roses in winter as we have no sale for them worth mentioning in summer months.

To grow roses on benches they must have constant and regular attention, must never be neglected or left to take care of themselves not even for one hour, and to those who are not willing to give them good and liberal treatment I would say don't attempt to grow them so, but if you want a few roses without much cost, expensive roses never mind (winter) have them planted in solid beds.

As to quality, I have grown myself and seen them grown by others all the leading varieties of roses in solid beds and on benches for comparison, and the blooms from the benches were far superior in substance, size and color to those from the plants in solid beds in winter.

JOHN N. MAY.

Scarcity of White Flowers in Fall.

This is a subject of more than ordinary importance to the florist, and I have been anxious to write a few words in reply to Mr. Taplin, of Detroit, Mich., whose article appears in the *Florist* of August 1, because I have been there and can fully sympathize with him; in fact what florist has not been often driven to his wits end to scare up a few flowers—more especially white ones—during the fall just previous to the advent of chrysanthemums—which if sufficient space is at hand may now be relied upon from the middle of October until New Years.

But although we are all ready to admit the present and ever increasing value of

the "mums," and the many uses for which they are applicable, their very presence seems to create a necessity for something else, and what good solid every day substantial white flower is that something else? I feel perfectly safe in assuring Mr. Taplin that if florists in this section were to depend upon white azaleas and Chinese primroses we should soon be applicants for admission into the poor house. Good double white azaleas are quite acceptable some times, but the single white and primroses have long since lost their value here as standbys. For years I grappled with the difficulties of the position and am thoroughly familiar with the inconveniences, aggravations and all the other perplexities attending the situation, but I think I have solved the knotty problem and feel as though I could now survey the scene with perfect complacency and feel able to impart the information for the benefit of all, without money and without price.

The grand secret lies in having an abundance of white roses and white carnations; with these two prime substantials in quantity the florist is well equipped for business, then if he has white hyacinths, bouvardias, lilies of sorts, stevia, frezias and a few other things as auxiliaries, he has the key to the situation and is ready to assume the position of a dictator with a sensation of independence worth a good deal of hard work to experience.

For white roses to fill out my programme I depend upon the *Niphetos*; carry over an old bed every year and it is two, three or four years old it is none the worse for the purpose. My plan is to let the bed gradually dry off in July, giving in August just sufficient moisture to keep down red spider and to keep the wood plump; towards the end of August they will break naturally like giants refreshed. In August, however, the bed is just such blind heads as you know to be absolutely worthless. Clean the bed thoroughly of weeds, dead leaves and every other nuisance, then give a very light dressing of pure bone meal well stirred into the soil, taking care not to injure the roots, then apply a one inch top dressing of well rotted cow manure and finish with a good watering; then if you are not delighted with the results it is because something is wrong. I have a bed treated this way two weeks ago from which fine roses are already being cut with every prospect, judging from appearance, of a plentiful supply throughout the fall and winter, besides, I have another bed to treat in exactly the same manner in ten days or two weeks hence, which will still further assist in furnishing a continuous supply.

If we would be on the top round of the ladder with carnations throughout summer and fall it is important to begin in good season; October struck cuttings of some sorts if encouraged and grown right along may be had in bloom in June or July with a certainty of their flowering throughout the fall, and even winter in some localities. Good stout carefully selected December struck cuttings of the right kinds may be brought into flower easily the following August, and may be had in increased quantity and improved quality throughout the fall and into the winter months.

My plan to accomplish this end is to plant out in a prepared frame as early in the season as the weather will permit, cover with sash as long as such protection is necessary, stop the plants not later than May, (if stopped first of May and the sorts are right they may be expected in flower first of July or there-



PHALAENOPSIS AMABILIS

about, if stopped last of May they will flower late in July or early in August) then allow them to grow and flower. My frames are situated so as to command an abundant supply of water whenever necessary to the growth of the plants, and when the nights become cold in the fall we put on an extra board to raise

the frame and put on the sashes; as a general rule this treatment will carry them safely right along into December, by which time carnations housed in September or October will be flowering abundantly.

At this writing I have a large bed of Silver Spray that have been flowering

ever since July, and judging from their present appearance, with the protection above described, they will flower along into the winter. I have also a six foot wide frame 100 feet long filled with such sorts as Lamborn, Grace Wilder, Portia, Tidal Wave, Buttercup, etc., which are now a mass of buds and which I expect

will come in handy through October and November right where they now stand, as we shall add a board to the height of the frame, put on sash on cold nights and even other protection if found necessary.

The methods above described I have found of great assistance in helping out with a supply of flowers at a time when so very important and valuable; the circumstances of other florists may suggest improvements to the above as to means of production, and even sorts of flowers suitable for the purpose. But I am quite strongly impressed that good Niphetos roses and good white carnations will be found hard to bent as flowers for every day use.

I am inclined to think that a very serious drawback with many florists consists in their anxiety to carry over the winter large numbers of such things as coleus, verbenas, geraniums, and many other things in the way of soft stuff, which might be purchased in spring for much less than they could themselves grow it. I remember some years ago I made a calculation on the cost to me of a lot of geraniums that I was selling at ten cents each, after taking everything into consideration, putting a fair valuation on space occupied and value of everything used and with the closest kind of figuring I found that they had cost me so nearly twenty cents each that there was no fun in it. I at once determined that valuable greenhouse space in large cities might possibly be used to better advantage than growing geraniums, coleus, verbenas, etc., and have since then managed my business accordingly.

Locations where land is cheap are the places to grow such, but if we would have the business profitable on high priced land in cities, a continuous supply of the best flowers, especially white ones, is of the first importance, a good bed of white carnations will be found so much more profitable than the same space occupied by any of the plants named, that comparison is entirely out of the question.

H. E. CHITTY.

Paterson, N. J., Sept. 12, 1890.



A New Departure—Claiming of Names for Seedlings.

To prevent confusion and duplication of names of chrysanthemums I desire to appropriate the following names for my seedling chrysanthemums for 1890, viz.: Salvator, Eurus, Potomac, Esplanade, Anna J. Sprague, Geo. Washington Childs, J. C. Vaughan, John H. Taylor, Ernest Asmus, Thos. H. Spaulding, E. A. Wood and Tommy Adams.

In doing this I expect to be criticised and may be condemned. Some will say the names are not *catchy*, others that they are not *euphonious*, and many of them *are too long*. The latter expression I expect from the reformers of nomenclature, and that they will say that I had no right to think of naming my seedlings without first submitting their proposed names to them. Why should I, or any one else,

ever consider or concede the right to name a seedling to any individual who never had the first thing to do with raising or caring for it in any shape or manner? The names I propose are commemorative and for that reason I wish it to be understood that George Washington Childs is not too long a name for me to write, and if Mr. Childs had three or four other given names I would surely add them, and if one label was too small I would use two, as it is Mr. Geo. Washington Childs I desire to name a seedling for and not any other Childs.

These reformers of nomenclature it seems to me will extend their labors into the human family very soon, and we may expect in a short time on the arrival of a married couple's first born a committee of one or more to wait upon the dotting parents to explain that the baby's name is to be plain Joseph or James if a boy, or if a girl Mary or Susan, without any intermediate or other frivolous names.

I know great stress is laid upon taking names, some go so far as to say that it is the name that either makes or kills the sale of plants and flowers. What an absurdity! If names make the success, sell the names and don't bother with the plant at all. The mechanics on one side and the theorists on the other make such statements. But when the truth is told it is the merit of the plant that brings it and keeps it in its position let the name be what it may.

For generic and specific names let us have Latin and Greek, for commemorative names leave that to the raisers of and distributors of seedlings, as it is their right and title.

JOHN THORPE.

Seasonable Notes.

It is getting more and more exciting every day. Where plants and flowers are growing for exhibition the accidents happen more frequent and the disappointments are nearly mature. Grass hoppers must be looked after as they do a great deal of damage in a very short time, the succulent shoots topped with a juicy bud seem to be their favorite food. I find the only way is to catch them with the finger and thumb, always approaching them from behind when possible.

Thin! Thin! Thin!!! Let this be done thoroughly and well according to instructions given previously. Any training by tying over or twisting must be done at once or the plants will be rough and unsightly at flowering time.

Plants should all be housed by this time except very early kinds that are wanted for exhibition in November. These should be placed in some sheltered place where they get a little sunshine, but no wind, and also where they can be easily taken inside on cold nights, to be taken outside again each favorable morning.

Plants that are backward should be placed in a very light house and subjected to a little fire heat after a few days' housing, remembering to water carefully.

If plants are infested with black or green fly it will be well to fumigate two nights in succession before the flowers begin to show color.

Don't use any more stakes than is necessary. Don't tie with string as thick as a lead pencil. Don't leave the ends of the strings two or three inches long. Don't forget to wash the pots before taking plants to exhibition.

JOHN THORPE.

THE DAILY PRESS is again carrying its annual load of items regarding the "night blooming cereus."



Wire Worms.

If G. B. S. will add three or four pounds of unslaked lime to every bushel of soil he uses it will make the wire worms so sick that they will give his seedling carnations a wide berth in the future; besides the health and color of his plants will be so much improved that he will think they belong to a new race of pinks.

The best way to use the lime is to spread the soil in a flat heap say ten or twelve inches thick, then place the desired amount of lime in lumps on the top, when the latter has become slacked and pulverized the whole should be turned over two or three times and thoroughly mixed, it is then ready for use. H. E. CHITTY.

Seasonable Notes.

No time should now be lost in having all carnations intended for flowering the coming fall and winter placed in their winter quarters; for while the carnation may be regarded as a half hardy plant and capable of withstanding a few degrees of frost, I almost invariably find that buds so exposed are as a rule more or less liable to injury.

The finest carnation flowers are usually those which are produced on stems the greater part of which are made after the plants are established on the greenhouse benches; for this reason it is good practice to stop them according as they are required to flower; if wanted early stop first of August, and later if so required; most kinds if stopped at former date will be ready to make quite a show in October, while the later ones may remain longer outside without injury.

Give carnation houses abundance of air both day and night as long as weather remains fine and water early enough in the day to allow the plants to dry off pretty well before night comes on; there was a time when it mattered little when we watered carnations, but that time seems to have gone; carnation growing seems a different experience now to what it was years ago; then we would plant them on the benches, give them a good watering and that settled the business until they needed water again, and many a time have I gone into the houses just before night and given them a sprinkle overhead and next morning they would look as bright as a new dollar; but it seems to me that if I was to commit such a foolhardy act now the probabilities are that I would find several dead plants in passing through the houses next morning. In fact this has been my experience more than once.

I have commenced a new departure this fall with regard to white carnations. I have said good bye to Hime's White and instead have planted Lamborn. Nearly four thousand of the latter grace my side benches and many of the first planted are already flowering, while all the benches so occupied are full of buds in various stages of development and present a very promising appearance. Of course it was like parting with a dear old friend, but considerations of economy compelled me to it, I could not afford to grow it any longer on account of its habit of growing in crops which usually insisted upon

coming months apart, and during the intervals I was obliged to buy large numbers of white carnations for the requirements of my business; the outlook at present would seem to indicate that I shall have no cause to regret my action in this matter, but will report as the season advances. H. E. CHITTY.

Paterson, N. J., Sept. 23.

The Award on Pots at Boston.

I have just read Mr. Craig's rebuke for the charge made by A. H. Hews & Co. of impartiality on the part of the committee. I sincerely hope that the S. A. F. will make Mr. Craig's sentiment in this matter their standard as well as the style of pots referred to. But I do not think this is all that should be done. Messrs. Hews & Co. say that the pots to which were awarded the Certificate of Merit were very many of them either ground, filed, turned or sand-papered to size. This is a very serious charge, which should be accompanied with proof. We must not allow any such charge to go without notice. If this be true, the committee must surely have been deceived and the S. A. F. should demand such proof at once. The S. A. F. must shoulder the responsibility taken by its committee and see this affair "snatched," not for \$3,000 as per Hews & Co.'s offer, but for justice. C. B. W.

—I was somewhat puzzled upon reading Mr. Craig's letter in your last issue. Is it quite fair that Mr. Hews should be rebuked for the position he has taken while his challenge remains unanswered?

It is an undeniable fact that other experts in this vicinity are expressing themselves even more strongly than he has done, and if no explanation is given of what now seems gross injustice, future awards will have but little meaning. Boston, Sept. 23. ROBT. FAIRCHUR.

—I wish to answer Mr. Craig through your columns. It seems to me that he cannot be aware that before the award was publicly announced the personal attention of the committee was called by myself to a defect in the pots, which he must admit should have been declared them entirely from competition.

Had I not known that these pots were ground to size after having been made (a direct violation of the principal condition of the award) no word of complaint should have come from me. A. H. Hews.

Boston.

The cut flower trade in Boston has been at a standstill for the past month. Roses have been in quantity considerably in excess of the demand, consequently prices have been very low, especially for large lots. The "summer resort" trade has about disappeared as an influence on prices during August. A few years ago this branch of the trade was an important one to the growers and wholesalers of Boston, making a most welcome boom in midsummer when the growers located in less fortunate neighborhoods were obliged to go hungry. But from various causes the end has come and the August boom is no more. In quality roses are improving rapidly, some of the lots coming to market now being of very fair quality. Carnations are not plenty, but there is still a good supply of asters and the scarcity of carnations will not be felt until the asters are finished. Tuberoses are plenty and cheap. Lily of the valley sells for \$6 per 100 and is first rate in

quality. Violets are seen occasionally. The call for orchids has commenced already and the growers of these luxuries look forward to an unusually brisk demand during the coming season. Lapagerias, white and red, are now at their best and are well fitted for use in the choicest work.

Plant auctions have begun and semi-weekly sales are held by both the regular auction agencies. Decorative plants, such as palms, pandanus, etc., take the lead.

The recent fruit and vegetable show of the Mass. Hort. Society was quite extensive and in every way creditable to the society and to the exhibitors. The attendance was good. An interesting feature was the department of canned and preserved fruits. The display in this line was very extensive and attracted much attention. The platforms and tables were decorated with plants by W. E. Hyde and Frank Becker, and Wm. Martin made a nice table design for the main exhibition table.

The next important event will be the chrysanthemum show. A number of the Bostonians are talking of visiting the Philadelphia chrysanthemum show in November. It is much to be regretted that for some unexplained reason, "contrariness" most likely, those whose duty it is to arrange dates for chrysanthemum exhibitions in both Philadelphia and Boston persist in selecting "conflicting dates," base ball fashion, year after year. There is no good reason why these two exhibitions with their very considerable difference in latitude should not be held on successive weeks, thus giving those interested an opportunity to see both displays. W. J. S.

Philadelphia.

Business is much better.

Florists about town are putting finishing touches on their places and getting ready for a good fall trade.

We notice a new establishment on Eleventh street below Walnut. Eleventh street florists are noted for their "get there" ability and this new addition being of African descent, will lend color and no doubt make the race very interesting.

There is a great scarcity of blooming plants hereabouts. Asters are done and there is nothing in sight save a few carnations until chrysanthemum time. It seems a pity that there should be a demand that we can not fill.

Mr. Blanc's collection of curios has increased to such an extent that he has to extend his establishment to make room for them. His collection is very interesting and the demand for them is increasing rapidly.

The ball team from Lonsdale's and Burton's nurseries invited the florists up for another game on September 18; it resulted in a victory for the florists by a score of 13 to 6. By common consent Mr. Daniel Farson was chosen to umpire the game. He managed to overcome the difficulties of the first three innings and then, well, he wasn't "in it." He redeemed himself, however, in a speech after the game. Everybody had a grand good time.

Tuesday, September 23, Messrs. Craig, Harris, Lonsdale and Burton sent a fine collection of plants to Young's auction rooms in New York, with the result that all the trade thereabouts turned out and bid the prices up on one auction in their eagerness to get something fine, in much the same way that lovers of art buy the works of celebrated artists.

The Florists' Club is about "solving the solution" of club house, and before many

months—in fact it may be that visitors to our grand chrysanthemum show will see more than fine flowers. Let the men who are given to rolling, and it seems now that it is one of the requirements or rather accomplishments of the business, keep it up and when they come on to see us they will have a chance to knock over pins from under us, as it were. D.

Chicago.

In connection with the present effort to organize a horticultural society with headquarters in this city, and to place the same upon an enduring foundation the following historical facts, for which we are indebted to Mr. Edgar Sanders, are of considerable interest. The first society of the kind ever organized in this city of which there is any record, was the Chicago Horticultural Society, organized in 1846. It gave several exhibitions which were good for that early time in the history of the city. The last published mention of it appeared in 1849, when it had 80 members. In 1857 the Cook County Agricultural and Horticultural Society was established and it gave one good exhibition, or rather a fair, the fall of that year. This was held on the prairie north of the city, on the space now bounded by North avenue, North Clark, Division and Wells streets. The society existed until the fire of 1871. In 1858 the Chicago Gardeners' Club was formed and continued in existence until January 8, 1867, when by resolution all its effects, including a library, were turned over to the new Chicago Hort. Society, organized in 1866. At the time of the fire of 1871 this society had rooms on Monroe street and possessed the nucleus of a library.

In 1876 the Nurserymen's and Tree Planters' Protective Association was formed, a trade organization, whose objects were indicated by its name. It held meetings for some time, but finally dissolved. During the early years of the city's history occasional horticultural fairs were held by the old Mechanic's Institute. In 1882 the Chicago Florists' and Gardeners' Ass'n was organized, but it expired after holding only three meetings. The Chicago Florist's Club, organized in 1887, is still in existence and is strong both in membership and financially.

The site for the World's Columbian Exposition of 1893 has at last been decided upon. As it includes the choicest part of the South Park system the horticultural department of the exposition is at least assured of every benefit that can be conferred by an advantageous location.

Subscription books for stock in the Chicago Flower Exchange have been opened and those desiring to subscribe may do so at any meeting of the Florist Club, or between meetings by calling upon the secretary of the club.

At the last meeting of the Florist Club it was decided to hold meetings every Thursday evening until the chrysanthemum show, in order to perfect all arrangements promptly for the exhibition.

Preparations for the Florist Club's exhibition next month are going rapidly forward, and the indications are that the display will greatly exceed that at any previous show.

The "Swiss Floral Co." is the legend which has appeared on the window at 226 North Clark street.

C. Freshman has opened a floral store at 101 North Clark street, in the Palace Hotel building.

News Notes.

BERLIN, MASS.—Samuel Wheeler is building a new carnation house 100x18.

READING, PA.—Messrs. Hoskins & Giles, J. H. Moore and John C. Hepler made excellent floral displays at the recent fair.

NEW BEDFORD, MASS.—The recent exhibition of the Gardeners' and Florists' Club received much favorable mention from the local press.

BUCKSPORT, ME.—The dwelling house of Mr. F. H. Moses, the florist of Bucksport and Bar Harbor, was burglarized recently. Mr. Moses' loss is quite heavy.

LA CROSSE, WIS.—At the recent fair the Oak Grove Greenhouses were awarded 13 first prizes in the floral department, including one for finest general collection of plants.

LYNN, MASS.—The annual exhibition of the Houghton Horticultural Society was held in this city September 16 and 17. There was an excellent display of plants and fall flowers.

SAN FRANCISCO.—At the meeting of the State Floral Society held September 13 a committee was appointed to make arrangements for a chrysanthemum show to be held this fall.

SHREWSBURY, MASS.—The Shrewsbury Floral Society held its 19th annual exhibition September 12 and 13. There was a very extensive show of flowers. The exhibitors were all amateurs, mostly ladies.

NEWARK, N. J.—The third annual chrysanthemum show will be held the first week in November. Intending exhibitors may communicate with Mr. Charles Bird, of Arlington, who has charge of the details of the exhibition.

BANGOR, ME.—The lady amateurs were out in force to compete for the premiums offered for cut flowers at the Eastern Maine Fair, and there was a very creditable display. A display was also made by F. H. Moses, the florist of Bucksport.

PORTSMOUTH, N. H.—Mr. Wm. Patterson, gardener to Hon. Frank Jones, has been very sick for the past four weeks, and at one period was practically given up by his physicians. A slight improvement has been noted within the last few days and there is a fair chance for his recovery.

PITTSBURGH.—A legal notice published in the daily papers September 22 announces that on September 13 an order of court was made that the B. A. Elliott Co. be dissolved and its assets be distributed among the parties interested on October 4, 1890, unless exceptions be filed prior to that date.

CINCINNATI.—A meeting of a committee from the city council and florists of this city was recently held to confer together regarding the location of the flower market for which the late Mrs. Mary Holroyd bequeathed the sum of \$10,000, an additional \$5,000 to be used if needed. An adjournment for two weeks was taken to investigate the locations suggested.

BALTIMORE, MD.—At an adjourned meeting of the board of managers of the Maryland Agricultural College held Sept. 19, a chair of botany and horticulture was created and Professor Brunk, a graduate of the agricultural department of Cornell University and a former president of the Texas Agricultural College, was elected to the position.

GERMANTOWN, PA.—At the last monthly meeting of the Germantown Hort. Society first premiums were awarded as follows: To Frank Smith for 4 plants in bloom; to Thos. Mechem & Son for 6 double dahlias; to John Brown for 6 China asters; special premiums to John Brown for a Cissus discolor; to John Kirby for a bilbergia; to Robert Morrison for 4 plants in flower.

LOS ANGELES, CAL.—A Floral Society was organized here September 15. Officers were elected as follows: President, Eli Snyder; Vice-President, C. E. Brydges; Secretary, H. W. Kruckeberg; Treasurer, J. C. Harvey. The Chamber of Commerce has generously offered the free use of a room for holding meetings. It is proposed to give a chrysanthemum show early in November.

MINNEAPOLIS, MINN.—The Society of Minnesota Florists held its annual meeting in this city September 11. The old officers were all re-elected. The society will give an exhibition of chrysanthemums in this city November 12 to 14 inclusive. Messrs. Wyman Elliott, Wm. Desmond and Richard Wessling were appointed a committee to make arrangements for the exhibition.

NEWPORT, R. I.—The exhibition which opened at the Casino September 10 contained some remarkably fine specimen plants, and the arrangement was excellent. The bulk of the display was made by the exhibitors from the conservatories of Messrs. Wetmore, Vanderbilt, Belmont, Lorillard, Rogers, Fiske, Taylor and Marquand, and Messdames Brooks and Paron Stevens. Florists Hodgson, Brandt and Gibson Bros. also made exhibits, mainly of cut flowers and floral arrangements.

NEW ROCHELLE, N. Y.—The new pond of aquatics at Messrs. Siebrandt & Weller's nursery has been a great show for some weeks past. Three large plants of Victoria regia have been constantly in bloom, in addition to many choice nymphaeas, nelumbiums and other aquatic plants. Several new houses are in course of construction at this nursery, including an immense packing house in which plants of any size can be handled and through which large vans can be driven.

ST. LOUIS.—The Jordan Floral Co.'s loss by fire during convention week was quite a serious one. The shed to which most of the houses were attached was entirely destroyed and very serious damage done to the contents of the houses by heat and smoke. A valuable collection of ferns was entirely destroyed and a large stock of palms and like decorative plants so injured as to be worth but little. Many of the palms were very old and valuable specimens, which it will be difficult to replace.

GRAND RAPIDS, MICH.—The Westminster Presbyterian Sunday school held its annual flower show the evening of September 18. Last spring Superintendent C. L. Frost distributed seeds among the pupils, and the floral exhibition was of flowers grown from those seeds, together with others donated for the occasion. He took this novel way of cultivating the horticultural taste of the young people under his care. The exhibit comprised all the well known varieties and was highly creditable to the young florists.

SPRINGFIELD, MASS.—Emil A. Neudahl died September 8 at his home in this city of Bright's disease and pneumonia. He was 36 years of age. He was a son of the late Albert Neudahl, of Elmira, N. Y.

Mr. Neudahl came to this city about four years ago from Rochester, N. Y., as foreman for C. F. Fairfield and became a partner in the business in 1888. He was considered to be one of the best rose growers in this part of the state. Messrs. Gale, Wilkinson & Son, Herrick and Fairfield remembered their brother florist by burying the casket with beautiful floral tributes.

DES MOINES, IOWA.—At the recent Fair premiums in the professional list were awarded as follows: Collection greenhouse plants, greatest variety, W. L. Morris; second, W. M. Elrod; third, R. A. Rollinson & Co. Foliage plants, W. L. Morris; second, Rollinson. Geraniums, of the bronze, silver, gold, or tri-colored varieties, Morris; second, Elrod. Geraniums, plants in bloom, Morris. Carnations, in bloom, greatest variety, Morris. Collection ferns, Morris; second, Rollinson. Roses, R. A. Rollinson & Co. Fuchsias, Morris. Begonias, Morris. Begonias Rex, Morris. Tuberous rooted begonias, most tastefully planted vase, R. A. Rollinson & Co.; basket, Morris; second, Elrod. Palms, R. A. Rollinson.

HARTFORD, CONN.—The fall exhibition of the Hartford County Hort. Society was held September 9 to 11. There was an excellent display. First premiums were awarded as follows: Floral design, G. W. McClunie; greenhouse and stove plants, B. E. Beemer; palms, Robt. Patches; ferns, Wm. May; variegated leaved plants, Christopher Besold, gardener to Mrs. Colt; dahlias, E. B. Smead; asters, E. M. Francis; crotons, B. E. Beemer; geraniums, C. H. PEMBER. Special prizes—Tuberous rooted begonias, James Smith; collection of sweet peas, E. M. Francis; nasturtiums, Miss E. F. Talcott. Special mention—J. H. Bairdian, seedling glloxinia (with diploma), P. A. Sears; pansies; James Smith's Adiantum Farwellense as best fern on exhibition.

LENOX, MASS.—The "tub" parade which always denotes the height of the Lenox season occurred September 20. There were in line fully thirty "tubs" (as the buckboards and phantoms are called) filled with society people who had displayed great ingenuity in decorating their turnouts. The buckboard which won the prize was ablaze with salvin and scarlet gladioli. First came a dog cart decked with golden rod and an umbrella of same flower. Next came a buckboard trimmed with white hydrangeas, the occupants holding a huge parasol of the same flowers. The third was a village cart covered with a canopy of sweet peas. A yellow buckboard was trimmed with blue corn flowers and yellow marigolds with an umbrella completely covered with corn flowers overhead and a lap robe of yellow flowers. A phantom was completely massed with white hydrangeas. Another phantom was covered with wild asters. A cart was a mass of bright autumn leaves and sheaves of wheat. Scarlet nasturtiums decorated another buckboard, and other "tubs" likewise decorated filled the line.

Long Island News Notes.

The following extract from the Brooklyn Times will interest some of your readers: "Mr. John A. Reed, of the firm of Reed & Funnell, florists at Huntington, has been declining with that dread disease consumption for a long time, until now he is unable to exert himself in the least. On Monday a cousin, an elderly gentle-

man of Brooklyn, visited him at Huntington and took the sick man to his home in the city, where he will spend the remainder of his days. During the past few months Mr. Reed has failed very perceptibly, and spent a week in camp life at Eaton's Neck, hoping to change would revive him, but to no purpose. Many prominent New York people will remember John A. Reed as the once flourishing diamond broker, and members of the Press Club can look back with pleasure upon the dinners given them at which Mr. Reed presided as host. He was regarded as an expert judge of precious stones. Some years ago he retired from active city life and moved to Huntington where of late he has been engaged in the cultivation of small fruits and flowers, for which he had a natural taste. He is the originator of 'Reed's Island Beauty' and the 'Volunteer' tomatoes."

Messrs. H. T. Funnell & Son, formerly Reed & Funnell, are moving their place of business and erecting three new houses for growing carnations and violets.

William Schubert, formerly with John Lewis Childs, is putting up two houses for cut flowers, at New Hyde Park.

Herman Scher of Queens formerly with Hallock & Son, is putting up three houses for cut flowers.

C. E. Parnell, gardener to D. F. Manier, has built a house at Floral Park and will soon enter the employ of John Lewis Childs.

Rumor has it that August Plügg and C. Lescamo, lately with Mr. Childs, will form a partnership and engage in a general seed and bulb business.

Mr. Childs is already moving into his new seed warehouse which is nearing completion. He is building seven new greenhouses 10x100 feet, heating them with hot water under pressure; E. S. Titus is doing the work. They will be ventilated by Evans' apparatus. The old seed store will be moved across the railroad track and attached to these houses.

Louis Sienrecht has built a large addition to his house the past summer. Since his return from Boston Mr. Sienrecht has been wrestling with a severe attack of rheumatism, but is around again. A.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By good gardener on gentleman's place. Married. Address J. B. West Conshohocken, Montgomery Co., Pa.

SITUATION WANTED—Commercial or private; German in 4 years old; married; salary \$100 per month. Address THEO. ARVED, 117 N. Western Ave., Chicago.

SITUATION WANTED—By practical man of 18 years experience in growing up flowers and plants on commercial place. Address L. G. care American Florist, Chicago.

SITUATION WANTED—By practical florist and rose grower; cultivated place; salary moderate, or with landscape gardener. For particulars address P. M. WAX, Twin Oaks, Del. Co., Pa.

SITUATION WANTED—By a young man, 28 years of age, in a store, thoroughly experienced in making up floral designs and bouquets. Best references. Address A. M. Villa Nova P. O., Del. Co., Pa.

SITUATION WANTED—By a young florist, 24 yrs. of age, experience in growing up flowers and plants in Philadelphia or vicinity. Good recommendations; age 30; American. Box 31, Weynesboro, Pa.

SITUATION WANTED—By a practical gardener of 30 years of experience in all branches, commercial or private. Roses, carnations, violets, a specialty; married; age 36. H. G. Westfield, N. J.

SITUATION WANTED—By an energetic young leading English florist; wages commensurate with object as the right kind of experience. Address J. B. COOK, 114 N. Y.

SITUATION WANTED—By practical gardener and florist; single. Good recommendations given from last employer, who I was with 9 years. Address T. S. Poppleton St., Baltimore, Md.

SITUATIONS WANTED—Together by man and wife. Man practical gardener 25 years experience in growing flowers, fruit and vegetables. Wife English; no faults; good cook and it. Good references. F. F. Gardner, Elm Grove, Waukesha Co., Wis.

SITUATION WANTED—A manager: have been managing an establishment of 3000 feet of glass where are some of the finest roses, etc. ever grown in the West. Testimonials from the season of leaving solely to better position. Address A. M. care American Florist, Chicago.

SITUATION WANTED—By gardener of executive ability, long practical experience in growing and all requisite of commercial matter, propagation, roses, carnations, etc. etc., either private or commercial, or near New York or Boston. References first-class. Address A. B. C. care American Florist, Chicago.

WANTED—A good florist and gardener. Address WILSON & CO., Silver Spring, Md.

FOR SALE—Weathered boiler, 85.00 good as new, used two winters. Address T. B. care American Florist, Chicago.

WANTED—Nymphaea Dentata and Alba Candidissima. Give price. Also other best white sorts. Address A. J. MANN, Centerville, Va.

WANTED—Gardener to the steam boiler, also good greenhouse hand. HENRY MOORE, 54 Beule street, Memphis, Tenn.

WANTED—Grower to supply retail store with roses this coming season. All first-class stock. Address J. J. LOVETT STORE, Boardwalk, Mo.

WANTED—Trade lists and catalogues of stove plants, especially choice begonias (not tuberous), marantas, bertolonias, aloccasias. Address Box 28, Springfield, N. J.

WANTED—A competent gardener and florist for commercial place. References required. Address, stating salary, J. E. JACKSON, Gainesville, Ga.

WANTED—A good, steady, single young man with some experience in growing roses for cut flowers. Stated references and wages. Address W. A. KENNEDY, box 23, Lake Forest, Ill.

WANTED—Propagator: one especially skillful in the propagation of hardy herbaceous plants and shrubs, experience, and all other cut flowers. Must be steady and temperate. Position permanent. J. T. LOVETT CO., Little Silver, N. J.

WANTED—Two steady young men (single), to help in a commercial place; must have a few years experience one for the plant and one for the rose department. State wages, etc. Address H. B. care American Florist, Chicago.

WANTED—An active, energetic assistant in greenhouse and flower garden, also rose grower. May be put in charge if competent. Wages and references required. No other work. Making man need apply. W. H. CASSELL, Box 46, Canton, Miss.

WANTED—A good steady and sober man who understands growing roses and other cut flowers, bedding plants, etc. Best reference required. Apply, stating wages expected, etc. Residence and greenhouse, Russell. Address ISAAC W. WOOD, Chase, Allegheny Co., Pa.

WANTED—Nursery foreman, an active, energetic man, American or German, married, strictly temperate. Thoroughly acquainted with all branches of the nursery business, a competent propagator of ornamental stock, and a good manager of men. Apply with reference to THE W. H. MOORE CO., Morrisville, Bucks Co., Pa.

WANTED—A good, steady and industrious young man, with the knowledge of all the work of growing and plants, and cut flower work. A steady place for the right man, who must be willing to work. Wages \$40.00 per month. Board \$16.00 to \$20.00 per month. Address with references from last place, J. B. WOODRUFF, Macao, Ga.

FOR SALE—40 feet of 4-inch pipe, one expansion tank, 6 branch tees and 3 elbows. Cheap or cash. J. OS. H. CUNNINGHAM.

FOR SALE OR RENT—A plant consisting of three greenhouses; also barn, and dwelling house containing 10 rooms. Address H. T. ZIMMERMAN, Rogers Park, Ill.

FOR SALE—One of the best retail florist stores in Chicago, well stocked and doing an excellent business; established 9 years, and located in a fine residence district. Owner wishes to go to Europe. Address J. T. C. care American Florist.

FOR SALE—Established florist business, 3 greenhouses, nearly new, with ground, pots, stock, tools and all complete, at least \$1000.00. In nice town, 6 miles from Phila., Pa. One third cash, balance mortgage. J. B. RUSSELL, Ashland, N. J.

FOR SALE—A florist establishment, one greenhouse, 40x100 and two 20x30 feet each, heated by hot water (Weathered); 25 acres of good land, some of it planted with roses; plenty of fruit; also a new and other out-buildings; good well and cistern. All buildings new and in good order. One hour from New York City, and one mile from depot. From \$4.00, or will sell the greenhouse property separate for \$200.00. Address Box 10, Hudson, N. J.

HOT WATER BOILER—One John Dick, Jr. No. 211 Water Boiler, eighteen 60x42 inch Pugs, with grates and good fuel pipe. Only used six months. (Owner gone out of business. All in first-class order. \$350.00. Address B. S. COOK, Owatonna, Minn.

A FIRST-CLASS OPPORTUNITY

For a practical florist to purchase a half interest in one of the best paying and one of the largest greenhouses in the Northwest; situated in a city of 200,000 inhabitants, centrally located, large established wholesale and retail trade, and nets 20 percent. on the investment. For particulars address J. B. BROWN, 616 Quincy Loan Building, Minneapolis, Minnesota.

A BARGAIN.

A WELL ESTABLISHED Florist Business for sale. Four houses, well stocked and equipped. Must sell for good reason, even at a sacrifice. Growing Ohio city of 25,000 inhabitants. Large trade with surrounding towns. Address OPPORTUNITY, care Am. Florist.

Cut this out.

MILDEW.

No one wants it! But many folks get it, and they don't want to keep it. So listen! A mildew destroyer must diffuse itself thoroughly to be effective; if you have insects in the greenhouse they are in spots and places—but the mildew comes like the dew, its spores catch every where.

For four years we have offered free, a package of *Grape Dust* or mildew powder for trial, if the tryers would pay carriage. Scores of packages have been sent out, a great many of those who tested *Grape Dust* have relied on it thereafter, and their confidence has not been misplaced. To use *Grape Dust* economically we give the experience of a *Rose Grower* who has five acres under glass, whose houses measure over a mile in length.

DIRECTIONS.

Take a good strong bellows, take off all the fixings, stop up the vent, and put a pound or so of *Grape Dust* through the nozzle—now go to the end of the house opposite the door and point your bellows at the end, begin to blow and back down the passage toward the door, as you go you raise a cloud of light dust that settles evenly and finely—the result is that wherever mildew settles this dust does, and it kills the mildew, leaving the plant in good condition.

There is no preparation its equivalent for Economy.

Sold by the SEEDSMEN of AMERICA.

Hammond's Paint and Slug Shot Works, FISHKILL-ON-HUDSON, N. Y.

FOR SALE.

Good Stock Healthy VIOLETS MARIE LOUISE and SWANLEY WHITE. Dble. The above clumps \$1.00 per 100 Fine plants transplanted 2 50 Runners 1 00 12 percent off on 500 plant orders. Cash must accompany orders from unknown parties.

M. TRITSCHLER, NASHVILLE, TENN.

LONG'S FLORAL PHOTOGRAPHS

—WERE AWARDED—

SPECIAL HONORABLE MENTION at Boston Convention Exhibit.

Enterprising florists readily appreciate their use as a practical help in their business. They help to better priced orders, and save much time during the busy winter months. The series now reaches eighty-five in number. Each a distinct subject.

ARTISTIC. BEAUTIFUL. PERFECT. Order early and apply for descriptive and priced catalogue direct to the publisher.

DAN'L B. LONG, Florist, BUFFALO, N. Y.

ROSES

FOR IMMEDIATE PLANTING

Duchess of Albany.....	2-inch.	3-inch.	4-inch
Mme. Hoste.....	\$12.00	\$15.00	\$18.00
La France.....	7.00	10.00	12.50
Gontiers.....	5.00	9.00	12.50
Perles.....	4.00	8.00	12.00
Niphetos.....	4.00	8.00	
Mermets.....	4.00	8.00	
Brides.....	4.00	8.00	12.00
Bon Silenes.....	4.00	6.00	8.00
Halto, Belle, strong, 4-inch,	\$5.00	\$8.00	
Gen'l Jack, 2-in. \$40 per 1000;	3-in. per \$8.00		

H. Perpetual, 40 var. 2-in. \$50.00 per 1000.
Geraniums—latest Novelties.
Latania borbonica, 5-in. \$4.00, 4-in. \$3.00
per dozen. **SEND FOR LIST.**

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

FIVE NEW AMERICAN ROSES

Probably the most interesting Novelties of the coming season, and those that will attract the widest attention of the Trade on both sides of the water, are:

NEW AMERICAN SEEDLING ROSES,

HENRY M. STANLEY,
MRS JESSIE FREMONT,
MAUD LITTLE
PEARL RIVERS,
GOLDEN GATE.

Five New Teas of Sterling Merit, originated, grown, and tested in this country, and sent out on their merits at reasonable rates. Orders can be booked now, and will be filled in rotation as received—April 1st next. Full descriptions ready Jan. 1st. Prices, \$1 each; set of 5 for \$5; two each, 10, for \$9; five of each, 25, for \$20.

Address **THE DINGEE & CONARD CO.,**
Rose Growers, West Grove, Pa.

ROSES

FOR WINTER BLOOMING.

10,000 healthy Roses from 4-inch pots, consisting of
Mermets, Brides, Perles, Cousins,
Souv. de Wootton, Papa Gontier,
La France and Niphetos,
at \$10.00 per 100.

Bon Silene and Safrano, \$3 per 100.
Also 10,000 SMILAX from 2½ in. pots,
at \$4.00 per 100.

Address **JAMES HORAN, BRIDGEPORT, CONN.**

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.
The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.
Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA FLAIN, (Boston), MASS.

Primula Obconica.

Choice plants, 2½-inch pots \$1.00 per 100
3-inch pots \$1.50 per 100

CARNATIONS.

Field grown. Ready September 15th. Portia, Hinz's White, Wm. Swayne, Christmas, Century, Chester Pride, etc. Price, \$7.00 to \$12.00 per 100.

GERANIUMS.

Choice lot of varieties, 3-inch pots, price \$3.50 per 100.
Many other plants in line variety, cheap. Send for Wholesale Price List.

Address **N. S. GRIFFITH,****JACKSON CO. INDEPENDENCE, MO.**

(Independence is well located for shipping, being 5 miles east of Kansas City.)

C. M. PRESBY.

CHAS. P. ANDERSON

JOHN HENDERSON CO.,

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

TO OUR PATRONS, AND THE TRADE GENERALLY:—We are convinced that this Rose will prove of permanent value—indoors and out. Its continuity of flowering, vigorous growth, large flowers, beautiful in color and form—a true Tea—must commend it to all.

Strong plants Ready April 1st, \$1.00 each; \$10.00 per dozen.

All the Old, New and Forcing varieties on hand, at lowest prices.

WRITE FOR CATALOGUES AND PRICES.

California's New Rose "THE RAINBOW."
READY FOR DISTRIBUTION.

During the recent Rose Show of the California State Floral Society "THE RAINBOW" received more admiration than any of the thousands of flowers exhibited, and the highest comments of the press.

Stock in the best possible condition at the following prices: 1 Plant, \$1. 12 Plants, \$10. 100 Plants, \$75.

TERMS CASH.—Remittances may be made by Draft, Postoffice Orders, or Wells, Fargo & Co. Money Orders.

Description and Colored Plate of "THE RAINBOW" will be mailed on application

JOHN H. SIEVERS, SAN FRANCISCO, CAL.

HYDRANGEA GRANDIFLORA.

We ask the attention of Dealers and the Trade to our Large Stock of HYDRANGEA GRANDIFLORA, nice, well-grown plants at very low prices, viz:

HYDRANGEA GRANDIFLORA, 2 year, 2 to 2½ feet, strong. Price, \$7.00 per hundred; \$60.00 per thousand.

HYDRANGEA GRANDIFLORA, 2 year, second size, 18 to 24-in., good. Price, \$6.00 per hundred; \$50.00 per thousand.

Samples on application. Correspondence solicited.

Address **THE DINGEE & CONARD CO., WEST GROVE, PA.**

Geo. Jackman & Son

Beg to offer a large and well grown

Stock of the following:

ROSES—In choice and exhibition varieties.

RHODODENDRONS—Of the best named sorts, and

Hybrid Seedlings well set with buds.

AZALEAS—Good named sorts, also Mollis and Ponticum set with buds.

CONIFERS—In large collection.

SHRUBS—Ornamental and Flowering.

FOREST TREES—Of sorts, all grown by thousands.

CLIMBERS—In variety, including their celebrated Clematis.

STOCKS—Fruit and Manetti, fine.

Catalogues free on application.

TERMS—Cash with order, or satisfactory trade reference from unknown correspondents.

WOKING NURSERY,

WOKING, ENGLAND.

SUGAR MAPLES.

The Finest of Shade Trees. Order now for

15 to 24 in. plants, all Delivery. Per 100

2 to 3 feet \$25.00

2 to 3 feet, beautiful stock \$30.00

2 to 3 feet, beautiful stock \$30.00

2 to 3 feet, beautiful stock \$30.00

2 to 3 feet, beautiful stock \$30.00

2 to 3 feet, beautiful stock \$30.00

2 to 3 feet, beautiful stock \$30.00

W. W. HENDRIN, Bowling Green, Ky.

A. BLANC,

ENGRAVER FOR FLORISTS,
PHILADELPHIA, PA.



Electro of this Cut, \$2.00.

LARGEST STOCK OF ELECTROTYPES OF PLANTS

AND FLOWERS FOR FLORISTS' CATALOGUES, ETC.

Complete Catalogues 50c. deducted from first order.

Agency for the sale of Electros of MESSRS. VIL-

MORIN ANDRIEUX & CO., (Paris.)

THE AMERICAN FLORIST

Subscription \$1.00 a year. To Europe, \$1.50.

Advertisements, 10 Cents a Line, Agent;
 Inch, \$1.40; Column, \$14.00.
 Cash with Order.

No Special Position Guaranteed.

Discounts, 3 months, 5 per cent; 6 months, 10 per cent; 12 months, 20 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and Dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements for Oct. 15 issue must REACH US by noon, October 9. Address

THE AMERICAN FLORIST CO., Chicago.

A copy of the premium list of the Illinois State Horticultural Society for its exhibition at Cairo, December 9 to 11, has been received. Premiums to the number of 123 are offered, of which 96 are for apples, 13 for pears and grapes, and 14 for vegetables. Not a single premium is offered for plants or flowers. This is the society which issued the call for a congress of horticultural societies and which had no less than eight delegates present at the meeting to vote on recommendations to be made to the World's Fair directors as to the conduct of the horticultural department of that exposition.

THE AMERICAN WILD FLOWER CLUB.—We have received a pamphlet of 16 pages outlining the plan of this club for the preservation of the wild flowers of America. It can be obtained from Mr. Chas. S. Horn, secretary, Wilmington, Del., by enclosing stamp for postage. Mr. Horn writes: "The rapid disappearance of our beautiful native flora has become a subject of national agitation, and our leading botanists are giving it their most profound attention. We want no national flower until our beautiful natives are saved to us."

WE HAVE received from Mr. H. E. Chitty, Paterson, N. J., a box of carnation flowers, among which were handsome blooms of Lizzie McGowan, the new white; of Grace Wilder and Portia, both cut from an old bed planted twelve months ago; of Buttercup from plants growing in the open air and which lacked the rich tints of pink and carmine commonly seen in this variety; and a bunch of Tidal Wave cut from plants in the open ground and which were of a wonderfully rich color.

MANUFACTURERS of electric alarm apparatus to indicate danger from frost in greenhouses have not failed to advertise the same in this paper.

Catalogues Received.

V. H. Hallock & Son, Queens, N. Y., forcing bulbs; Gause & Bissell, Richmond, Ind., bulbs and plants; Jno. R. & A. Murdoch, Pittsburg, Pa., trees, bulbs and plants; Geo. W. Miller, Chicago, plants; P. J. Berckmans, Augusta, Ga., plants and trees; Schlegel & Fottler, Boston, Mass., bulbs; John S. Calkins, Pomona, Cal., trees and plants; E. Bonner & Co., Xenia, O., plants and bulbs; Jas. M. Lamb, Fayetteville, N. C., plants and bulbs; Souper & Notting, Luxembourg, Europe, new roses; Currie Bros., Milwaukee, bulbs, seeds and supplies; Ketten Bros., Luxembourg, Europe, roses; E. H. Kelage & Son, Haarlem, Holland, Dutch bulbs.

PANSIES.

A FEW POINTS TO CONSIDER.

QUALITY the important feature in pansies is well taken care of in my strain; in fact so well that many of my customers say there are no better ones. Those who bought a few hundred on trial last season are placing their orders now for a fully supply.

THE PLANTS are nice stocky seedlings that can be mailed or expressed safely long distances and at a moderate cost. Samples will be mailed for 10 cts.

QUANTITY I can furnish them in any number, 10 or 10,000, all from the same beds and same seed. A trial order is respectfully solicited.

PRICE Free by mail 100, 75 cts.; 500, 35c.; by express 500, \$2.50; 1000, \$5; 2500 and upward 10 per cent discount.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

ZIRNGIEBELS NEW GIANT MARKET AND FANCY PANSIES

Have been exhibited everywhere and admitted to be the finest strains at the present time.

"Huge jewels of velvet and gold."—Boston Transcript, May 10th, 1893.

Trade packages of 1,500 and 500 seeds respectively, at \$1.00 each. Full printed directions for the proper cultivation of these pansies with each package of seeds.

IN ANSWER TO MANY INQUIRIES:

We have no seed of giant Pansies to sell by weight, being too scarce and high. We renew our stock every season, from seed obtained direct from Messrs. Bugnot and Cassier, at the rate of thirty and twenty dollars per ounce, respectively (with a limited supply), as we consider their seed to be the cheapest, quality considered. We do not handle any other.

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.
Mention American Florist.

PANSIES

The grandest collection ever offered, including all the latest novelties. Our seeds are warranted to be fresh, pure, and strictly first-class in every respect. Send for new Circular and Price List to the

ALBERT BENZ, DOUGLASTON, N. Y.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Rooted Plants are the best at the lowest price. TRADE LIST sent quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

GLADIOLUS BULBS.

Prevailing Colors, Pink and White. Over 100 named varieties, and a number of choice seedlings, all mixed together. This collection has never been culled, and it has received a number of first premiums. In fact it has never failed to do so when exhibited. To avoid retailing these bulbs, I offer them this fall at \$10.00 per 100 for first size; second size, \$7.50. A quantity of small bulbs and bulbets at 50c. per 100.

M. CRAWFORD, Cuyahoga Falls, Ohio.

DOUBLE WHITE PRIMULAS.

From 3-inch pots, well rooted. \$10 and \$15 per 100. Cash with order.

S. TAPLIN,

Fort St. West, DETROIT, MICH.

THIS CUT FOR YOUR CATALOGUE. The Trowel, introduced last season, sells at 10c. For tracing, lifting and setting plants: as all around "Handy Digger." It has equal. \$2.50 per dozen. THE FLORAL SUPPLY CO., BINGHAMTON, N.Y.

PANSY SEED. NEW CROP.

TRIMARDEAU, choicest French mixed, unsurpassed in brilliancy of color and size of flowers, some measuring from 3 to 4 inches across. Price, per lb. \$2.50; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

TRIMARDEAU, Deep Purple, 1 lb. \$1.50; 1 lb. 50c. \$1.50; 2 lbs. \$3.00; 3 lbs. \$4.50; 4 lbs. \$6.00; 5 lbs. \$7.50; 6 lbs. \$9.00; 7 lbs. \$10.50; 8 lbs. \$12.00; 9 lbs. \$13.50; 10 lbs. \$15.00; 11 lbs. \$16.50; 12 lbs. \$18.00; 13 lbs. \$19.50; 14 lbs. \$21.00; 15 lbs. \$22.50; 16 lbs. \$24.00; 17 lbs. \$25.50; 18 lbs. \$27.00; 19 lbs. \$28.50; 20 lbs. \$30.00.

CASSIUS 3 and 5 blotched Giant, extra fine. Per lb. \$2.00; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

FAUST, (King of the Blacks), best for bedding. Per lb. \$2.00; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

EMPEROR WILLIAM, dark blue. Per lb. \$2.00; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

LORD BEACONFIELD, purple. Per lb. \$2.00; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

Bronze, fine mixed, per lb. \$1.50; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

White, fine mixed, per lb. \$1.50; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

Yellow, fine mixed, per lb. \$1.50; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

All colors, fine German mixed, per lb. \$1.50; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

All colors, improved large-flowering, mixed, per lb. \$2.00; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

PRIMAULA Chinensis, fine mixed, 100 seeds 50c.; 500 seeds \$2.50; 1000 seeds \$5.00; 2000 seeds \$10.00; 3000 seeds \$15.00; 4000 seeds \$20.00; 5000 seeds \$25.00; 6000 seeds \$30.00; 7000 seeds \$35.00; 8000 seeds \$40.00; 9000 seeds \$45.00; 10000 seeds \$50.00.

PRIMAULA Hybrid, finest mixed, 1 lb. \$1.00; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

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PRIMAULA Hybrid, finest mixed, 1 lb. \$1.00; 50c. per 100; 1 lb. \$5.00; 2 lbs. \$10.00; 3 lbs. \$15.00; 4 lbs. \$20.00; 5 lbs. \$25.00; 6 lbs. \$30.00; 7 lbs. \$35.00; 8 lbs. \$40.00; 9 lbs. \$45.00; 10 lbs. \$50.00; 11 lbs. \$55.00; 12 lbs. \$60.00; 13 lbs. \$65.00; 14 lbs. \$70.00; 15 lbs. \$75.00; 16 lbs. \$80.00; 17 lbs. \$85.00; 18 lbs. \$90.00; 19 lbs. \$95.00; 20 lbs. \$100.00.

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PRIMAULA Hybrid, finest mixed, 1 lb. \$1.00; 50c. per 100; 1 lb. \$

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,
And the Choicest ROSES for the
fall and winter season.

W. S. ALLEN, WHOLESALE DEALER IN CUT FLOWERS.

36 EAST 23rd STREET, NEW YORK.

ESTABLISHED 1877.

Price List sent upon application.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS,

NO. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

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WELCH BROS., WHOLESALE FLORISTS,

165 Tremont Street, BOSTON MASS.

We make a specialty of shipping choice Roses and other Flowers, carefully packed, to all points in Western and Middle States.

Return Telegram is sent immediately when it is impossible to fill your order.

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56 WEST 30TH STREET,

NEW YORK.

N. F. MCCARTHY & CO. WHOLESALE FLORISTS

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL
Mention American Florist.

CYCLAMEN from 2½-inch pots, Per 100 \$5.00
" " 3-inch pots, 8 00
CHINESE Primulas, 2½-inch pots, 3 00
Splendid plants, extra choice strains.
CARNATIONS, field grown, 2d size, 5 00
J. LAURENCE, Harrisburg, Pa.

@Wholesale Markets.

Cut Flowers.

BOSTON, Sept. 25.

Roses, Tea	.....	\$1.00
" Fancy	.....	4.00
Gladioli	.....	50 @ 1.00
Carnations	.....	1.00
Asters	.....	1.00
Valley	.....	6.00
Tuberose	.....	1.00
Sweet peas	.....	1.00
Lapageria	.....	2.50
Sunflower	.....	1.00
Salix	.....	12.00
Adiantum	.....	1.50

PHILADELPHIA, Sept. 25.

Roses, Beauties	.....	\$3.00 @ 12.50
" La France, Wootton, Netter	.....	4.00
" Perles, Niphotos	.....	3.00
" Albany	.....	4.00 @ 4.00
" Mermets, Brides	.....	4.00
" Pierre Guillots	.....	5.00
" Soulier	.....	2.00
Carnations, long	.....	1.00
Carnations, short	.....	12.00
Gladioli stalks	.....	2.00 @ 3.01
Tuberose	.....	6.00 @ 5.00
Salix	.....	12.00 @ 30.00
Adiantum	.....	1.00
Dahlia	.....	1.10
Valley	.....	6.00 @ 8.00
Violets, single	.....	30

NEW YORK, Sept. 25.

Roses, Bon Silence	.....	\$5.00 @ \$1.00
" Goutiers	.....	1.00 @ 7.00
" Perles, Niphotos	.....	2.00 @ 3.00
" Wattevels, Cusins	.....	2.00 @ 4.00
" Mermets, Brides	.....	2.00 @ 4.00
" La France, Albany	.....	3.00 @ 5.00
" Bennetts	.....	2.00 @ 3.00
" Bon Silence	.....	2.00 @ 3.00
" Beauties	.....	5.00 @ 30.00
Valley	.....	10.00
Salix	.....	12.00 @ 15.00
Carnations, long	.....	1.00
Adiantum	.....	1.50
Asparagus	.....	25.00
Mignonette	.....	1.00
Violets	.....	75

CHICAGO, Sept. 27.

Roses, Perles, Niphotos	.....	\$1.00 @ \$1.00
" Goutiers	.....	1.00 @ 2.00
" Bon Silence	.....	1.00 @ 2.00
" Mermets, La France, Brides	.....	3.00 @ 5.00
" Am. Beauties	.....	3.00 @ 12.00
" Bennetts, Dukes	.....	3.00 @ 4.00
Carnations, short	.....	1.00 @ 1.50
Salix	.....	18.00 @ 20.00
Tuberose	.....	3.00 @ 4.00
Tuberose, long	.....	1.20 @ 2.00
Asters	.....	2.00 @ 1.00
Adiantum	.....	1.00 @ 1.25
Gladioli	.....	1.00
Mignonette	.....	1.00

WM. J. STEWART, Cut Flowers & Florists' Supplies

WHOLESALE

67 BROMFIELD ST., BOSTON, MASS.

Mention American Florist.

EDWARD C. HORAN, 34 W. 29th St., NEW YORK.

Having removed to more spacious quarters (next door) with increased resources and facilities I am now prepared to furnish at short notice and in any quantity, selected Roses of every variety, also all other flowers in market.

Roses to be shipped are especially selected, and packed under personal supervision.

SPECIALTIES:

American Beauty, La France, The Bride, Mermets, Mme. Hoste, Duchess of Albany.

— WRITE FOR PRICE LIST —

Return telegrams sent when orders or part of them cannot be filled.

Mention American Florist.

GEO. MULLEN, WHOLESALE FLORIST, Florists' Supplies Always in Stock.

17 CHAPMAN PLACE,

(Off School St., near Parker House).

BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express promptly filled.
Mention American Florist.

E. H. HUNT, 79 LAKE STREET, CHICAGO, Successor to

VAUGHAN'S CUT FLOWER DEPT.

Our stock is cut with special reference to shipping trade, which comprises the greater part of our business. We therefore claim that we are better prepared to attend to the wants of FLOWER BUYERS, outside of Chicago, than any house in the West.

OPEN DAILY: Week days till 9 P. M.

Sundays till 2 P. M.

KENNICOTT BROS., WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

We always have choice, Fresh Cut Flowers in season. The best packers in the trade. Orders promptly shipped. Store open until 9 P. M. Sundays until 2 P. M.

WIRE CUT A SPECIALTY.
Extra designs made to order. Write for price list.
Consignments Solicited. Telephone 66.

C. H. FISK, WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES.

116 Dearborn Street, CHICAGO.

OPEN NIGHTS AND SUNDAYS.

WIRE DESIGNS IN STOCK

FRESE & GRESENZ, (Successors to W. FRESE.) Wholesale Dealers in CUT FLOWERS, And Florists' Supplies.

89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 9 P. M.

LaRoche & Stahl, Florists & Commission Merchants

—OF—

CUT FLOWERS.
1237 Chestnut Street, PHILADELPHIA.
Consignments Solicited. Special attention paid to shipping. Mention American Florist.

CHAS. E. PENNOCK, WHOLESALE FLORIST

38 So. 16th Street, Philadelphia, Pa.

JOHN M. HUDSON, WHOLESALE

Commission Dealer in Cut Flowers,
1225 Market St., ST. LOUIS, MO.

Quick sales and prompt returns guaranteed. Consignments solicited.

CUT FLOWERS

The choicest Cut Flowers at lowest market rate shipped C. O. D. Telephone connection. Use A. F. Code when ordering by telegraph. For prices, etc., address,

J. L. DILLON, BLOOMSBURG, PA.

DIRECTORY.

Every Florist, Nurseryman and
Seedsmen should have one.

AMERICAN FLORIST CO., Chicago.

Re Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. MCCULLOUGH, Cincinnati, president; JOHN PORTER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1897.

Red onion seed is said to be short in California.

Severe frosts September 12 killed the growing vines in Nebraska.

ONION SETS are reported a rather short crop—it's a hard story to guess about.

LATEST ADVICES indicate the disastrous failure of the bean crop in western New York.

MR. S. B. DICKS, representing Cooper, Taber & Co., and Mr. J. Webster, with Howcroft & Watkins, of London, are now doing the U. S.

MR. EVERETT E. ROGERS, of the firm of Rogers Bros., Chubbuck, N. C., died September 9, in his 81st year. Mr. Austin L. Rogers, his surviving partner, will continue the business.

LOUISVILLE, KY.—T. G. Truman, dealer in seeds and agricultural implements at 319 West Market street, made an assignment September 9 for the benefit of his creditors. The assignee is the Germania Safety Vault and Trust Company. No schedules of assets and liabilities were filed, but it is estimated that the former will probably amount to \$25,000 or \$30,000. It is thought that the liabilities will not be much in excess of the assets. The firm was formerly McGill & Truman, and as such was organized and did business here about 20 years ago, and on up to 1887, when Mr. McGill sold out to Mr. Truman.

Situation Wanted in Seed Trade.

Scotchman, age 28 to 35 years' experience in all departments, gained in leading houses in Britain and America; well up in office work and correspondence. Certificates and references as to character and capability furnished. Address

SEEDSMAN, care American Florist, Chicago.

For Sale.

Surplus stock of FREESIA REFRACTA ALBA, flowering bulbs at \$5 per 1000 free by mail. A real bargain.

EUGENE CADMUS,

1419 R ST. N. W., WASHINGTON, D. C.

SINGLE EARLY TULIPS.

I will send, postpaid, 36 fine Tulip bulbs for \$1.00; 12 Arde, pink; 12 Helene, white; and 12 Yellow Price; will add a trade pkt. seeds of the grand new black Hollyhock "The Raven."

JOHN F. RUFF, Shiremanstown, Pa.

CARNATIONS, VIOLETS AND PANSIES.

Snow Bird, the finest white Carnation out, now for sale with other new and old varieties.

MARIE LOUISE VIOLETS.

Fine field grown plants, \$5 per 100. 50,000 PANSIES of the Jennings strain, extra fine plants, \$5.00 per 1000. Send for price list.

PANSY SEED, \$1.00 per packet. Address

E. B. JENNINGS, box 76, Southport, Conn., CARNATION, PANSY AND VIOLET GROWER. Mention American Florist.

CARNATIONS.

Field grown plants, ready in September and October. Also

VIOLETS.

Large clumps for forcing of MARIE LOUISE AND SWANLEY WHITE. Send for circular.

W. R. SHELMIER, Avondale, Pa.

CHOICE FORCING BULBS AND PLANTS ALL THE LEADING KINDS.

FRESH PALM SEEDS, NEW CROP PANSY SEED, MEMORIAL WREATHS and CROSSES, the best imported from Germany and France, FLORISTS' SUPPLIES, Etc., offered at reasonable prices, as per my fall list, which will be sent free to all florists and dealers.

ORCHIDS: Just arrived a splendid lot of

ODONTOGLOSSUM CRISPUM (Alexandriae).
" LUTEA PURPUREA.
" CUSPIDATUM.

CATTLEYA TRIANE.

" SANDERIANA.

Prices quoted on application.

Address

J. A. DE VEER, 18 Burling Slip, NEW YORK.

CHRISTMAS ROSES.

If you require fine clumps of home grown Christmas Roses, the large white flowering variety, full of flower buds, either for planting or forcing, order at once.

PRICES FROM \$7.25 TO \$24.00 PER HUNDRED.

THE LARGEST STOCK IN THE WORLD TO SELECT FROM.

Bulb catalogue and special prices free on application.

Cash with order or good references required from unknown correspondents.

HERMAN BUDDENBORG,

WHOLESALE BULB GROWER,

HILLEGOM,

HOLLAND.

FIELD GROWN CARNATIONS.

Plants grown specially for Winter Blooming, strong and healthy, medium size.

BUTTERCUP, at \$10 and \$12.50 per 100, as to size.

CHRISTMAS and DAWN, at \$15 per 100.

GOLDFATE, a limited number of strong, field grown plants of this splendid pure yellow, at 75 cents each.

J. R. FREEMAN, a new cardinal colored; and

CHASTITY, a new rose pink colored; fine plants at \$25 per 100.

WM. F. DREER, the 'argest and finest pink colored Carnation yet produced; a few splendid stock plants at 50 cents each.

OLD STANDARD SORTS, in assortment, at \$8.00 per 100.

EASTER LILIES. Some choice home grown bulbs, 2 to 2½ inches in diameter, at 25 cents each; \$2.00 per dozen, delivered by mail.

OXALIS LUTEA. The finest large yellow winter flowering Oxalis. Extra large bulbs, 5 cents each; 21 cents per dozen; ordinary size bulbs, \$1.50 per 100, by mail prepaid.

CHAS. T. STARR, AVONDALE, Chester Co., PA.

CARNATIONS

FIELD GROWN. LARGE, HEALTHY PLANTS.

	Per 100
De Gray, white.....	\$ 8.00
Hinze's White.....	6.00
Portia, John McCullough, Sec'y Window, Mrs. Garfield and Pres. Garfield.....	8.00
Violeta M. L. size and Swanley White.....	5.00
Abolitions in variety.....	4.00
Hibiscus in variety.....	4.00
Primula Obconica.....	3.00
" Chinensis.....	2.00
" Fluribunda.....	4.00
Begonia Rex in variety.....	\$5.00 and \$ 8.00
Begonia Lucy Clason.....	2.00
Begonia Louise Brody.....	3.00
" Diadem, 5-inch.....	3.00
Primula Obconica Seed, pkt. 100 seeds, 75c.	

I. N. KRAMER & SON,

MAHON, IOWA.

CARNATIONS AND VIOLETS.

HINZE'S WHITE, PORTIA, CENTURY,

ALEGATIERE, SILVER LAKE and others.

First Size.....\$8.00 per 100; \$75.00 per 1000.

Second Size.....6.00 per 100; 50.00 per 1000.

VIOLETS M. LOUISE.

Fine clumps, perfectly healthy.

First Size.....\$8.00 per 100; \$75.00 per 1000.

Second Size.....6.00 per 100; 50.00 per 1000.

AMPELOPIS VEITCHII.

Strong 2½-inch pots, \$5.00 per 100; \$40.00 per 1000.

JACK ROSES.

3½-inch pots, \$5.00 per 100; \$40.00 per 1000.

Address J. G. BURROW,

FISHKILL, N. Y.

LIZZIE MCGOWAN

We shall be prepared to distribute this valuable New White Carnation, early next year.

H. E. CHITTY, Paterson, N. J.

JOHN MCGOWAN, Orange, N. J.

Probst Bros. Floral Co.,

1017 Broadway, KANSAS CITY, MO.,

OFFER

	Per 100
Carnation Hinze's White.....	\$6.00
" Portia.....	7.00
" Garfield.....	6.00
" Grace Wilder.....	8.00
Chrysanthemums, po'.....	\$12 to 18.00
Violets, large single.....	4.00
Grevillea robusta.....	8.00
Dahlias, named, fire var. root'.....	8.00
" mixed single and double.....	6.00

Field Grown Carnations

Grown specially for Winter Blooming.

Carnations, strong, healthy plants, \$5.00
Bouvardia A. Neuner, 10 to 20 sprays, 8.00
" New Double Pink, very fine, per dozen, \$3.00.

Ampelopis Veitchii, 3.00
Hydrangea Hortensis, 4 & 5 in. pots 8.00

Deutzia gracilis, will make 25 sprays 10.00

W. P. BRINTON, Christiana, Lancaster Co., Pa.

Mention American Florist.

CARNATIONS.

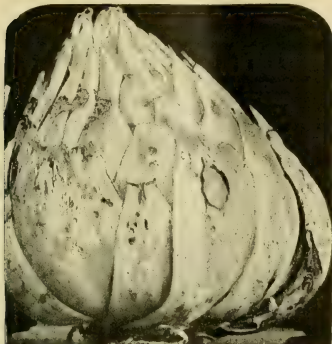
Fine lot of best kinds, strong plants

Winter-blooming Carnations,

for sale by

C. K. HOFFMEYER,

ALLEGHENY, PA.



LILIUM CANDIDUM.

For the first time in many years we have really **FINE LARGE PERFECTLY SOLID** bulbs of this grand old lily. Would you like some really No. 1 picked bulbs of it? We have 80,000, and we are selling at

\$4.50 PER 100; \$20.00 FOR 500,
on cars here; (sample free for postage).

Hard, solid bulbs of **L. HARRISII**, 5 to 7-in., \$7.00; 300 for \$19.00.
A few Extra **LONGIFLORUM** at \$7.50 and \$11.00.

J. C. VAUGHAN, CHICAGO.

We claim to have imported more **BULBS** this season than any single firm in the U. S. Good stock, low rates, prompt delivery.

AUGUST ROLKER & SONS

No. 136 & 138 W. 24TH ST.,
NEW YORK,

Importers and Dealers in

**FLORISTS' SUPPLIES, SEEDS,
BULBS, PLANTS, ETC.**

HULSEBOSCH BROS.,

—GROWERS OF—

DUTCH BULBS, FLOWER ROOTS & PLANTS

OVERVEEN, near Haarlem, HOLLAND.

Offer to the Trade as usual all kinds of the best

Hyacinths, Tulips, Crocus, Lilies

Narcissus, Roses, Azaleas,

Rhododendrons, &c., &c.

Catalogues free on application to

A. HULSEBOSCH,

O. Box 3118. **NEW YORK CITY.**

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NAR-

CISSUS, SPIRÆA, LILIES

OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale Importers should write us for prices.

Our new Bulb Catalogue is now ready. Will be mailed free on application.

C. H. JOOSTEN,

3 Coenties Slip, NEW YORK,

—IMPORTER OF—

FORCING BULBS,

IMPORTED HARDY ROSES,

Strong Clematis, Etc., Etc.



**MUSHROOM
SPAWN**
GENUINE HILLTRACK

10 lbs. 25 lbs. 50 lbs. 100 lbs.

\$1.20 \$2.25 \$4.00 \$8.00

JOHN GARDINER & CO.
PHILADELPHIA, PA.

Bulbs! Bulbs! Bulbs!

We beg to offer the following Bulbs for Early Forcing :

LILIUM HARRISII.....	5 to 7 inches in circumference
LILIUM HARRISII.....	7 to 9 " " " "
CALLA ÆTHIOPICA.....	First Size
CALLA ÆTHIOPICA.....	Second Size
FREESIA REFRACTA ALBA, ETC., ETC. SPECIAL PRICES ON APPLICATION.	

SEEDS FOR PRESENT SOWING.

Extra choice strains of *Primula Chinensis*, *Calceolaria*, *Cineraria*, *Pansy*, etc., 50c. and \$1 per pkt. An extra selected strain of Highland Mary Pansy, very fine, per pkt. \$2.

DAISY Bellis Perennis fl. pl.....					
" " " Alba.....					50 cts. per packet.
" " " Longfellow.....					
" " " Snowball.....					

V. H. HALLOCK & SON, QUEENS, N. Y.

V. H. H. & Son beg to state they always have a number of first-class gardeners' names on their books waiting for situations, and would be glad to hear from anyone requiring same.



WE WANT YOUR ORDERS NOW
— FOR —

Chinese Narcissus,

AURATUM, LONGIFLORUM, ALBUM, RUBRUM,
KRAMERI, ELEGANS, AND OTHER
JAPANESE BULBS.

CALIFORNIA LILY BULBS.

Australian Palm Seeds.
California Palm and Flower Seeds.

JAPAN PALM, SHRUB AND FLOWER SEEDS.

Our new Wholesale List of above, and of Trees, Ornamental Shrubs, Plants, Conifers, etc., now ready. SEND FOR IT.

H. H. BERGER & CO.,
P. O. Box 1501, SAN FRANCISCO, CAL.

LILIUM LONGIFLORUM,

FINE, SOLID BULBS.

5 to 7 inch, per hundred, \$7.50. 7 to 9 inch, per hundred, \$11.00.
10 per cent. less on 500 or more.

J. C. VAUGHAN, Bulb Dealer, CHICAGO.

Better than HARRISII
For Late Forcing.

A Remarkable Flower.

The following paragraph is making the rounds of the daily papers:

"A flower has been discovered in South America which is only visible when the wind blows. The shrub belongs to the cactus family and is about three feet high. The stem is covered with dead, wart-like lumps in calm weather; these lumps, however, need but a slight breeze to make them unfold large flowers of a creamy white, which close and appear as dead as soon as the wind subsides."

This must be the original "Wind Flower" and is probably a hybrid between a reporter and a champagne headache.

3,000 CEDRUS DEODORA.

In sizes of from 18 to 48 inches.

20,000 BIOTA AUREA and SEMPER AUREA.

20,000 RARE CONIFERAE in 100 varieties.

PALMS and open ground ROSES.

This stock is in most thrifty condition. N. B.—The bulk of the stock of Coniferæ is pot grown.

Orders booked now for November delivery. Catalogues on application.

Address **P. J. BERCKMANS,**
Fruitland Nurseries, AUGUSTA, GA
Mention American Florist.

20,000 DEUTZIA GRACILIS

2 year old plants, very fine and Bushy, especially adapted for forcing.

No. 1, 1 to 1½ ft., \$6 per 100.

No. 2, 8 to 12 in. \$4 per 100.

Send 10 cents for sample, also trade list with a full line of Nursery Stock.

C. RIBSAM & SONS,
Trenton, N. J.

Choice Stock Cheap.

Dracæna Indivisa, 4-inch.....	Per 100 \$10 00
Ampelopsis Veitchii, 3 inch.....	3 00
Latania Borbonica, 3-in, 1 year.....	8 00
Aspidistra Variegata, 5 inch.....	\$9 per doz.
Pandanus Veitchii, 4-inch.....	\$12 per doz.
ROSES from OPEN GROUND, Deliver in Dec.	
Jacqueminot.....	Per 1000 \$70 00
Hermosa.....	60 00
Agrippina.....	60 00

J. H. CAMPBELL & SONS,
3601 Germantown Ave., PHILADELPHIA PA.
Mention American Florist.

FERNS.

A. Cuneatum, fine plants for shifting.
ROSES, 3 inch, for immediate bedding,
at usual prices. SEND FOR LIST.

M. A. HUNT,
TERRE HAUTE, IND.

APPLE GERANIUM SEED.

Per 1,000.....\$ 3.00

Per 10,000.....25.00

Cash with order from correspondents not well known to the trade. Address

BROTHERS INDUSTRIAL GARDENS,
MOBILE, ALABAMA.

CHARLES D. BALL,

HOLMESBURG, PHILADELPHIA, PA.,

PALMS, FERNS AND DECORATIVE PLANTS.

My establishment is devoted exclusively to the culture of such plants. The stock is one of the largest, and CANNOT BE EXCELLED IN QUALITY. Prices always moderate.

TRADE LIST ON APPLICATION.

UNITED STATES NURSERIES, SHORT HILLS, N. J.

Our Wholesale Catalogue is ready, and will be forwarded to anyone in the trade who has not received same. We offer the following:

PALMS in all leading varieties and sizes
FOLIAGE PLANTS of any description.
FLOWERING PLANTS, the best for the florist's use.

FERNS, for Dinner Table Decoration.

HARDY HERBACEOUS.—Now is the time to plant these useful plants.

ORCHIDS and CYPRIPEDIUMS.—Descriptive list with cultural directions for growing the best Orchids suitable for florists just issued, and will be forwarded to anyone interested in this beautiful class of plants by applying to

PITCHER & MANDA,

The United States Nurseries, SHORT HILLS, N. J.

We guarantee 100 cents in plants for every dollar.
Mention American Florist.

ORCHIDS! ORCHIDS!

Many additions of Choice New varieties this season.

Send For New Catalogue.

WM. MATHEWS,

UTICA, N. Y.

CUT BLOOMS AT ALL SEASONS.

ORCHIDS! ORCHIDS!

Lowest Prices Ever Offered.

Send for special prices of **SURPLUS STOCK** which must be sold now.

Established 1854. **BRACKENRIDGE & CO.,**
Govanstown, (Baltimore), Md.

A. LIETZE,

P. O. Box 644 RIO DE JANEIRO,
PALM SEEDS, ORCHIDS,
NEW CALADIUMS.

For price list apply to:
Messrs. ADOLPH v. ESSEN & CO.,
Gr. Reichenstrasse, 73, Hamburg, Germany.

JAPANESE PLANTS,

Trees, Shrubs, Bulbs, Seeds, Etc.

offered at low prices by
FELIX GONZALEZ & CO.

Direct Importers and Exporters,
303 to 312 Wayne and Crescent Aves.,
SAN FRANCISCO, CAL.
Wholesale Catalogue mailed free on application.
Mention American Florist

ORCHIDS.

NEW AND RARE PLANTS, ETC.
A very extensive stock of Orchids:
EAST INDIAN, MEXICAN, CENTRAL & SOUTH AMERICAN, etc. **PITCHER PLANTS**, a large collection.
NEW AND RARE HOTHOUSE AND GREENHOUSE PLANTS, carefully grown, at lowest rates.
Finest Winter Blooming Roses, Clematis, Dutch Bulbs, Fruit and Ornamental Trees. Catalogues on application. **JOHN SALL**, Washington, D. C.

THE SEVEN OAKS NURSERIES.

NEW CROP PALM AND PANDANUS SEEDS.

We have just received a large invoice of the following, which we can offer at 20 per cent below the usual prices:

Latania Borbonica, 65c. per lb.: \$55 per 100 lbs.
Thrinax elegans, \$5 per Thousand Seeds.
argentea, \$3 per
parviflora, \$2.25
Livistona olivacea, 10 seeds, 75c.; 100 \$6.
Pandanus utilis, 100 seeds, 85c.; 1000 \$7.50.
30,000 feet of sound Dracæna cuneata, Fragrans, Terminalis, and Farrier. State quantity wanted, and price will be given on application.

R. D. HOYT,
BAY VIEW, FLORIDA.

PALMS.

LATANIA,

KENTIA,

ARECA.

Apply to **EDWIN LONSDALE,**
WYNDMOOR, CHESTNUT HILL,
PHILADELPHIA, PA.

FERNS. PALMS. 40,000

Fern Seedlings, in the following varieties, at \$5.00 per 100, from 2½-inch plants.

ADIANTUM	PTERIS TREMULA.
" C. ROENBECKII.	" ARGYREA.
" GRACILLIMUM.	" SERRULATA var.
Per doz. Per 100	
LATANIA BORBONICA , 1-inch pots, \$5.00 \$25.00	
" 2-inch pots, 1.50 15.00	
" 6-inch pots, 10.00	
PANDANUS UTILIS , 6-inch pots, 1.00	

Also a large stock of **MUSA SUMATRANA**, the best of all var. Banaanias, \$1.00 each; \$50.00 per 100.
Address

GEORGE WITTBOLD,

School & Halsted Sts., LAKE VIEW, CHICAGO.
Mention American Florist.

Palms and Dracænas.

LATANIA BORBONICA, 3-in. pots, strong, 15c. each.
CHAMEROPS EXCELSA, 3 in. pots, strong plants, 12½c; 2½ in. pots, small, 6c.
CORYPHA AUSTRALIS, 2-inch pots, 8c.
WASHINGTONIA ROBUSTA, 4-inch pots, 25c; 3-inch pots 15c. 10 to 15 other varieties in 5 to 10 and 12-in. pots, some good specimens at low down prices. Over 100 **CYCAS REVOLUTA**, from \$5.00 to \$25.00 and \$12.00, according to size.
DRACÆNA TERMINALIS, 5 in. pots, strong plants, 30c.; 10 in. pots 20c; 3 in. pots 12c; 2½ in. 10c.
DRACÆNA INDIVISA, 5 in. pots, strong plants 35c; 4 in. pots 20c; 3 in. 12c; 2 in. 5c. 00 per 100.
Send me your orders, I feel sure I can give satisfaction.

W. J. HESSER,
PLATTSMOUTH, NEB.

FARLEYENSE

Good strong plants, in 4-inch pots,
\$50.00.....per 100.

FISHER BROS. & CO.,
MONTVALE, MASS.

KEEP FOR REFERENCE.

ROSE HILL



NURSERIES.

ESTABLISHED 1867.

FALL TRADE LIST.

PALMS, DECORATIVE PLANTS, FERNS AND ORCHIDS,

REC'D & WADLEY,

Rose Hill Nurseries, New Rochelle, N. Y.

This brief list represents a selection for the trade from our stock, admitted to be one of the largest anywhere. The plants offered are all in perfect condition, and will be shipped, carefully packed, upon the usual terms and conditions.

PALMS.

ARECA catechu. A fine new Palm.
24 to 30 inches, \$18 to \$20 per dozen.
36 to 40 inches, \$20 to \$25 each.
4 to 5 feet, \$4 to \$5 each.
A. lutescens. Well known and highly esteemed.
Seedlings, \$10 per 100.
15 to 18 inches, \$25 per 100.
18 to 20 inches, \$35 per 100.
20 to 24 inches, 4 and 5 leaves, \$45 per 100.
24 inches & long, \$50 per 100.
Decorative size, 25 to 30 in. strong, \$15 per doz.
Decorative size, 30 to 36 in., strong, 6 leaves, \$18 to \$24 per dozen.
Large or specimen plants, 3 to 6 feet, at from \$2.50 to \$10 each.

A. Verschaffeltii.
18 to 20 inches, \$9 to \$12 per dozen.
20 to 24 inches, \$15 to \$18 per dozen.
24 to 30 inches, strong, \$20 to \$24 per dozen.

KENTIA Belmoreana, Forsteriana and Australis.

Three fine palms.
Seedlings, thumb pots, \$20 per 100.
12 to 15 inches, 4 and 5 leaves, \$25 per 100.
15 to 18 inches, \$30 per 100.
18 to 20 inches, strong, \$40 per dozen.
20 to 24 inches, \$12 to \$15 per dozen.
24 to 30 inches, \$18 to \$24 per dozen.
Fine decorative sizes, 30 to 36 in., finely furnished, 6 to 7 char. leaves, \$2.50 to \$4.50 each.

LATAMIA borbonica. The "old reliable"—always in demand. Seedlings, \$8 per 100.

Seedlings, extra strong, \$10 per 100.
18 to 20 inches, \$4 per dozen; \$30 per 100.
20 to 24 in., fine stock, \$6 per doz.; \$45 per 100.
24 to 30 inches, \$12 to \$15 per dozen.
2 feet, extra strong, 5 & 6 leaves, \$12 per doz.
2 to 2½ feet, \$15 to \$18 per dozen.

2½ feet, strong, 6 & 7 leaves, \$20 to \$24 per doz.
Large or specimen plants, \$3 to \$5 each.

Extra large specimens, \$5 to \$10 each.

PTYCHOSPERMA Alexandra. Very graceful palm, 18 to 24 inches, \$6 per dozen.

30 to 36 inches, \$15 to \$18 per dozen.

36 to 40 inches, \$20 to \$24 per dozen.

PHENIX reclinata. Very good, hardy & valuable. Plants showing character, for growing on, 18 to 20 inches, \$6 to \$7.50 per dozen.

20 to 24 inches, 5 to 6 leaves, \$9 to \$12 per doz.
2 to 2½ feet, \$15 to \$18 per dozen.

Fine decorative size, 3 feet, \$24 to \$30 per doz.
Larger or specimen plants, \$25.00 to \$10 each.

P. rupicola. "Fountain Palm." This is the genuine variety.

Four sizes, clean and healthy stock, 12, 15, 20 and 24 in. high, \$1, \$1.50, \$2.50 and \$3.50 each.

SEAFORTHIA elegans. One of the best decorative Palms.
2½ feet, \$12 to \$15 per dozen.
Fine decorative size, 3 to 3½ feet, \$18 to \$24 per dozen.
Larger or specimen plants, \$2.50 to \$5 each.

CYCAS revoluta. Largest stock of established plants with perfect leaves in the country; we cannot be excelled on these.

Fine young plants, well established, having been grown in pots for one or more years, with bulbs 7 to 9 in. in circumference, and from 2 to 4 good leaves, according to stock, \$5 to \$15 per dozen.

Plants with fine strong stems from 5 to 7 leaves measuring 12 to 15 in., \$15 to \$20 per dozen.
Plants with stems 20 to 24 inches in circumference, and with 7 to 9 perfect leaves, 2 feet, \$25 to \$30 per dozen.

Specimens for cutting or decorative purposes—these plants will pay for themselves in a very short time—with perfect heads of from 2½ to 3 ft. spread, and with from 8 to 12 perfect leaves measuring 2 ft. long, and with fine large trunks, measuring 16 to 18 in. in circumference, \$5 to \$12 each.

Larger specimens, \$20 to \$100. Special prices on application.

SELECT DECORATIVE PLANTS.

DRACÆNA terminalis. Our stock is noted for its perfect condition.

2½ in. pots, 9 and 10 inches high, \$10 per 100.
4 in. pots, 1 ft. high, \$15 and \$20 per 100.
6 in. pots, 2 to 3 ft. high, \$12 to \$18 per dozen.
2 terminalis stricta grandis. The finest colored Dracæna in cultivation.

Strong plants 1½ to 2 ft. \$15 to \$24 per dozen.

D. fragrans. The beautiful and popular green-leaved form.

3 in. pots, 10 to 12 in. high, \$20 per 100.
Strong plants, 5 inch pots, 15 to 18 in. high, \$20 to \$30 per 100.

Extra strong plants, 6 in. pots, 20 to 24 inches high, \$7.50 to \$9 per dozen.

DRACÆNA, named Fancy sorts. We have every good variety in cultivation, in 1, 2 and 3 feet plants, at from 75 cents to \$3 each, \$9 to \$30 per dozen, in sorts.

FICUS elastica. The hardy and popular "Rubber Plant."

1½ to 2 in. 7 to 10 inches, \$8 to \$10 per doz.
2 to 2½ ft. \$12 to \$15 per dozen.

Large plants, 2½ to 3 ft. \$18 to \$24 per doz.

Extra large plants, 3½ to 4½ ft. \$25 to \$35 a pair.

PANDANUS utilis. Our "Screw Trees" are in superb condition.

Seedlings, thumb pots, \$8 per 100.
4 inch pots, \$15 to \$20 per 100.

5 inch pots, \$5 to \$7.50 per dozen.

6 inch pots, \$5 to \$12 per dozen.

7 inch pots, 5 large plants, \$2 to \$4 each.
Extra fine specimens, in 9 to 12 inch pots, \$5 to \$10.

P. Velutina. Big stock, in excellent condition. Fine color; this is one of the best variegated decorative plants grown.

4 inch pots, \$15 per dozen.
6 inch pots, \$18 per dozen.

7 inch pots, \$24 to \$30 per dozen.

Specimen plants at from \$6 to \$10 per pair.

SELECT USEFUL FERNS.

ADIANTUM cuneatum. The standard Maidenhair for cutting. 3 inch pots, \$8 per 100.

4 inch pots, \$10 to \$15 per 100.
5 inch pots, \$20 to \$25 per 100.

Large plants, in 6 & 7 in. pots, \$4 & 55 per doz.

A. Farneyense. An elegant stock of this, in fine order.

4 inch pots, grand stock, \$5 per dozen.
4 inch pots, extra strong, \$6 per dozen.

5 inch pots, extra strong, \$9 per dozen.
6 inch pots, extra strong, \$15 to \$18 per doz.

A. l. vum. Excellent for filling. 3 inch pots, bushy and low, \$8 per 100.

A. regina. This is one of the best ferns in the trade to-day.

Well furnished 4, 4 inch pots, \$25 per 100.
Large plants, 5 in. pots, \$9 to \$12 per doz.

A. rhodophyllum. The pink-leaved Maidenhair fern; bright green and pink foliage. 3 to 5 inch pots, from \$3 to \$5 per doz.

A. St. Catherine. Fine stock, in 2½, 3 and 5 in. pots, \$3, 34 and 56 per doz.

ANEMIA. One of the most hardy dwarf growing ferns. Especially adapted for filling jardinières.

2½ inch pots, \$5 per 100.
3 inch pots, \$7.50 per 100.

4 and 5 inch pots, \$10 per 100.

NEPHROD-15 Davallioideus furcans. This is a beautiful decorative hardy fern. \$3, 56 and \$9 per doz. \$15, \$25 and \$30 per 100.

PIERIS hastata. A splendid hardy fern. 2½, 3 and 4 inch pots, \$6, \$8 and \$10 per 100.

P. tremula. A good fern. 2½, 3 and 4 inch pots, \$6, \$8 and \$10 per 100.

TREE FERNS. All varieties and in all sizes.

ORCHIDS.

Of these we have the largest collection in this country.

Assorted named Orchids, cheap for beginners, \$7.50 to \$10 and \$15 per dozen.

Very good sorts for cut flower purposes, in strong plants, \$15, \$24 and \$30 per dozen. They comprise the following popular varieties: Angreum, Cattleyas, Cologues, Cypris, Dendrobies, Epidendrobies, Lelias, Lycastes, Miltonias, Odontoglossums, Oncidiums, and many other species and varieties.

We send our valuable new illustrated Catalogue, which contains many hints and cultural notes on Orchids, with every \$5 order, free.

In addition to the above list of plants, we have a large stock of the following varieties, all in excellent condition and in almost all sizes: Anthuriums, Alocasias, Crotons, Begonias, Marantas, Dieffenbachias, Nephthes, Amaryllis, Gardenias, Azaleas, Orange Trees, Greenhouse Vines etc.

Siebrecht & Wadley.

ORIGINAL AND LARGEST GROWERS OF

LILIAM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 140 in length, in a crop of *Lilium Harrisii* in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fills in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his own use. We hear it said occasionally that *Lilium Harrisii* flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing."

The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

—* HALF A MILLION BULBS. —*

Be sure you get the genuine *Lilium Harrisii*. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant *L. Longiflorum* in Bermuda, planting it with *Harrisii* to increase their stock rapidly when *Harrisii* was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Foreign Notes.

THE MORNING of September 1 there was quite a sharp hoar-frost in some parts of England.

MISS MARIANNE NORTH, the accomplished English botanist and artist, died recently, aged 60 years.

JAMES HACKHOUSE, the well known English florist and nurseryman, died August 31, aged 65 years.

DESPITE an indifferent season and sharp frosts there was a fine display of flowers at the exhibition of the National Dahlia Society at the Crystal Palace, London, September 5 and 6.

THE DISEASED condition of the begonias of an English gardener has been found to be caused by colonies of minute eel worms living and breeding between the two membranes of the leaf.

THE SHOW of early chrysanthemums was larger than last season at the exhibition of the National Chrysanthemum Society at the Royal Aquarium, Westminster, September 10 and 11.

NEW ENGLISH BOOKS.—The art and practice of landscape gardening, by Henry Milner; Sap, does it rise from the roots? by J. A. Reeves; Manual of injurious insects, second edition, by Miss Ormerod.

FLORAL DESIGNS.

A book which tells how to make them and shows how they look. Fifty tinted plates of approved designs, in fine shape for showing to customers in place of the bare wire designs; it "gets there" much better, and looks pretty while doing it. It is a good investment for any working florist at \$3.50, postpaid, and can be had of

J. HORACE McFARLAND,
Box 55. HARRISBURG, PA.

S. A. F. ATTENTION.

Our defeated competitor in "Standard" Flower Pot contest at the Boston meeting, for the **Certificate of Highest Merit**, reflects on the members of the Committee of Award as not being impartial in their decision. The members of that Committee were M. A. Hunt, Terre Haute, Ind.; Chas. Henderson, of the firm of Peter Henderson & Co., New York, and Wm. K. Harris, Philadelphia, Pa. No fairer or more competent committee could be selected from the members of the S. A. F., and as far as diligent inquiry reveals, their decision meets with the approval of everyone excepting A. H. Hews & Co.

The official programme gave notice that the Certificate would be awarded to the display "which most nearly approaches the 'Standard,' such display shall consist of not less than one dozen of each size, made from working molds and not turned down." The sheet with drawings of the pots (which was gotten up by A. H. Hews & Co., under instructions of the Committee of S. A. F. and sent to the different potters for their guidance) shows 17 sizes, and the number we exhibited; one dozen of each, as required. In regard to the statement published by A. H. Hews & Co., that "very many" of our pots were "either ground, filed, turned or sand-papered to size," we wish to distinctly say that this is **FALSE**. The pots we exhibited for the Certificate were made exactly as we make them for our customers, and were not altered in any way whatever; in fact, it is impossible to alter the inside measurement after a pot is once made; a mold that will make one pot correct will make any number (until the mold wears out) exactly the same. In reference to the absurd "propositions" of Messrs. A. H. Hews & Co., we decline to be a party to the proposed exhibitions as it would be a gross insult to the honorable gentlemen of the committee, who, after giving their time and labor to the society, are at least entitled to common courtesy.

THE WHILLDIN POTTERY CO.,

713 & 715 Wharton Street, PHILADELPHIA, PA.

STANDARD FLOWER POTS

WE MANUFACTURE THE EXACT STANDARD FLOWER POT.

Send for our new price list, dated August 1st, 1890, and you will notice that our prices are lower than ever before.

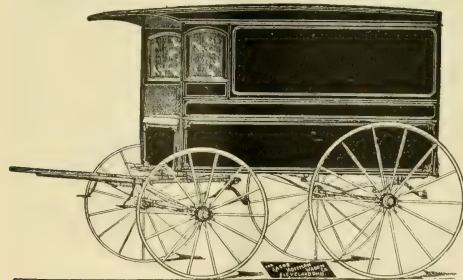
OUR WARE GIVES PERFECT SATISFACTION.

GIVE US A TRIAL AND CONVINCE YOURSELF.

SIPLE, DOPPEL & CO.,
SYRACUSE, N. Y.

We make the Best Delivery Wagons in the World.

THE NEW HOFFMAN FLORIST DELIVERY WAGON.



Specially designed for Florists' delivery purposes.

Write for Descriptive Circulars and Prices to

THE JACOB HOFFMAN WAGON CO.,

Office, 41 Michigan Street,

Cleveland, O.

STANDARD POTS

made by the latest improved machinery, are better and cheaper than those made by the old way. Price, 1000 cars here, free of charge:

2-inch, per 100,	3-inch, per 100,	4-inch, per 100,	5-inch, per 100,
\$8.25	\$8.25	\$8.25	\$8.25
2 1/2-inch, per 100,	3 1/2-inch, per 100,	4 1/2-inch, per 100,	5 1/2-inch, per 100,
\$9.00	\$9.00	\$9.00	\$9.00
3-inch, per 100,	4-inch, per 100,	5-inch, per 100,	6-inch, per 100,
\$10.00	\$10.00	\$10.00	\$10.00
3 1/2-inch, per 100,	4 1/2-inch, per 100,	5 1/2-inch, per 100,	6 1/2-inch, per 100,
\$11.00	\$11.00	\$11.00	\$11.00
4-inch, per 100,	5-inch, per 100,	6-inch, per 100,	7-inch, per 100,
\$12.00	\$12.00	\$12.00	\$12.00
4 1/2-inch, per 100,	5 1/2-inch, per 100,	6 1/2-inch, per 100,	7 1/2-inch, per 100,
\$13.00	\$13.00	\$13.00	\$13.00

All pots shipped at 100-lb. class freight rates. Terms cash.

HILL FINGER BROS., Fort Edward, N. Y.

TREES FOR FALL PLANTING

The LARGEST and MOST COMPLETE stock in the U. S. of FRUIT and ORNAMENTAL Trees, Shrubs, Peonies, Roses, Hardy Plants, Grape Vines, Small Fruits, &c. Illustrated and descriptive priced Catalogue.

Also wholesale price list for the trade **FREE**

50th Year.

Mention this paper.

ELLWANGER & BARRY

Mention American Florist.

MT. HOPE NURSERY, ROCHESTER, N. Y.

S. A. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

Many of our friends agreeing with us that the award on Standard Pots at our late Exhibition was an unjust one, we shall use the advertising columns of the AMERICAN FLORIST to state our side of the question.

We asked the Executive Committee to give us an impartial committee of award. The following propositions should convince anyone whether **WE FEEL** that we have had such a Committee.

The following is the text of the matter in question, taken from the official programme:

"Manufacturers of FLOWER POTS are notified that a Certificate of highest merit will be awarded to that display of Pots shown at this exhibition, which most nearly approaches the Standard. Such displays shall consist of not less than one dozen of each size, made from working moulds and not turned down."

One member of the Committee of Award said that we were not entitled to any award because we exhibited but fifteen sizes, while others exhibited seventeen, and that seventeen cuts were represented on a white sheet of Standard Pots. We fail to see that the award was offered for any specific number of sizes, but that twelve of each size should be presented. **A MUCH MORE IMPORTANT PART OF THE COMMITTEE'S ANNOUNCEMENT** was that the pots should be **MADE FROM WORKING MOLDS AND NOT TURNED DOWN.** We do not hesitate to make this public statement that the Flower Pots to which was awarded the Certificate of highest merit were **VERY MANY** of them **EITHER GROUND, FILED, TURNED or SAND-PAPERED** to size, and for that reason alone were not entitled even to a measurement by the Committee of Award.

WE WISH TO MAKE TWO PROPOSITIONS.

First. We will put up **\$1,000 in Cash** and submit the same pots exhibited at the late Exhibition against the pots exhibited by our competitor, and leave it to an impartial committee of three, and if our pots do not come the nearest to the requirements, we will present the \$1,000 to the fund of the Society of American Florists.

Second. We will put up **\$2,000 in Cash** and produce 500 pots of each size from $1\frac{3}{4}$ -inch to 7-inch inclusive, and 250 pots each from 8 inch to 12-inch inclusive, making 7,250 pieces, made from the same moulds in which the pots we exhibited were made, and all shall be of the proper thickness in all respects, against an equal number of pots made from the same moulds that produced the pots receiving the award, and if an impartial committee do not give us the award we will present the money and the pots to the Society of American Florists for an experiment station. And if we are allowed to choose one of the committee of three, we will select our honorable Treasurer Mr. M. A. Hunt, of Terre Haute, Ind.

A. H. HEWS & CO., North Cambridge, Mass.

A. T. CEFREY'S

Patent Improved
Florists'



Immortelle Letter and
Pin Fastener.

CEFREY LETTER CO.,

GENTLEMEN—I find the new machine-made Immortelle Letters manufactured by you very saleable and in many respects superior to anything of the kind we have ever handled. Their uniformity of shape, size and color, the convenient form in which they are put up, and the excellent device for fastening them to the work, are among the most commendable points in your letters. Please double my last order and deliver as soon as possible. Yours truly,
W. J. STEWART.

CEFREY LETTER CO., 13 Green St., Boston.

DEAR SIR:—Please ship me five thousand letters as soon as possible. They are the best and most practical letters in the market. The pin fasteners are a long way ahead of the old-fashioned way of wiring. Yours truly,
N. F. MCCARTHY.

CEFREY LETTER CO., Boston, Mass.

DEAR SIR:—Send at once ten thousand small letters and five hundred large (two inch.)

GALVIN BROS., Boston.

We wish to announce to all florists that we have removed to much larger quarters, **No. 13 GREEN STREET, BOSTON.** We make our letters by machinery; they are not only more perfect in size, shape and color, but are the best and cheapest in the market. Our 2-inch letters are only two and a half cents, and the 1 $\frac{1}{2}$ -inch letters are only two cents apiece. Your customers will have no o' hers. Be up with the times! Send us your orders and we will ship you a supply for this winter. **They are the best in the market.**

THE CEFREY LETTER CO., 13 Green Street, BOSTON, MASS.

Got a Good Supply.

Tell Bro. McGowan if he expects to go to heaven he had better stop that turtle joke. I posted a notice on the school house that I would pay 5 cents a piece for land turtles, then had occasion to leave home and told my man to pay for them as they were brought in. Thirty-nine hours later I received this telegram: "I have bought 138 turtles; want any more?" Answer: "You can guess my answer, as I only have two small houses and very few snails." [KO. A. HEIDLER.

Bedding Plants.

I would like to learn through your valuable paper the best way to manage bedding plants to get them forward so as to have all in bloom by the middle of May. The reason why I ask is that decoration day comes on June first and whatever plants are left after that date and not sold are a dead loss except to plant out. Now how shall I manage the different bedding plants so as to have all ready and in bloom by May 15? Geraniums, fuchsias, heliotropes, etc. Also would you advise pinching back geraniums when first potted. E. D. J.,
Pittsburg, Pa.

FLORISTS' HALL ASSOCIATION
OF AMERICA.

OF AMERICA,
Insures Greenhouses against damage by hail. For
full information, address

JOHN G. ESLER, Sec'y, Saddle River N. J.

CATALOGUES.

The Aldine Printing Works, Cincinnati, O.,
for samples and prices before ordering
elsewhere.

Mention The American Florist &

"NEPONSET" WATERPROOF FLOWER POTS

For Shipping Plants.

**UNBREAKABLE. HANDSOME. DURABLE.
LIGHT. CLEAN. CHEAP.**

They insure complete protection to the roots, make a perfect pot for marketing, and effect an immense saving in cost of transportation. Cheaper to use "Neponset" Pots than to wrap with paper. Slips, Cuttings and Young Plants can be grown and marketed in the smaller sizes, saving labor of transplanting, and avoiding injury to plant. Made in Standard sizes adopted by Society of American Florists.

SOLE MANUFACTURERS:

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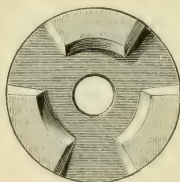
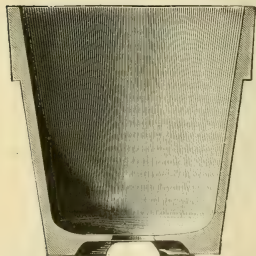
But lots of my friends by mail didn't meet me because the Society of American Florists hadn't provided the means of identification they agreed to at Buffalo. I may have to wear a red coat at Toronto; I don't want to miss so many people again! I'm not pretty, but I want to see who I am writing to, when I can; and I want to be seen and known.

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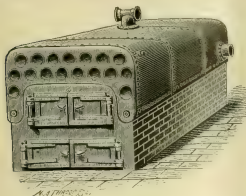
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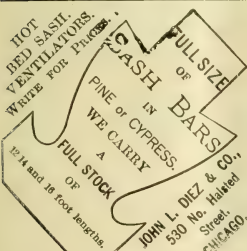
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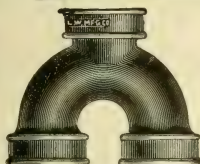
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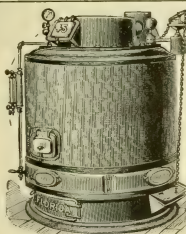
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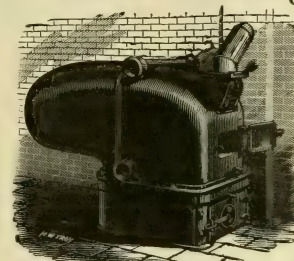
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Vol. VI.

CHICAGO AND NEW YORK, OCTOBER 15, 1890.

No. 125.

THE AMERICAN FLORIST

Hybridization.

[Read before the Society of American Florists at Boston by E. S. Carman.]

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ADVERTISING.—Our readers in the mail trade, both florists and seedsmen, will read with interest the article elsewhere in this issue on this subject, by Mr. W. Atlee Burpee, upon which no man in the American trade is better prepared to write.

WHAT will be the decision of the Secretary of the Treasury as to duty or no duty on dormant roses is a question which is now agitating many importers.

I am going to take this chance to say a word upon a subject of much importance to our young people in connection with the study of botany. It is really one of the simplest studies in the world; that is, there is of necessity, very little that is difficult about it. This simple, fascinating study of vegetable life is rendered repulsive to many young people because of the absurd, irrational, preposterous words which botanical authors have chosen to express simple methods, simple ideas, simple functions.

I am not going outside of my subject to illustrate this absurdity. We must, of course, recognize the necessity of a plant nomenclature that may be studied effectively in every language, and it is therefore indispensable that a single language—Greek or Latin preferably—be selected as the standard; the same as it is desirable that we should have a standard of weights and measures, or of money denominations. But when we come to study the physiology, the organography, the morphology of plants, the simplest and shortest words should be employed; and there is nothing that stands in the way of this but the habitual, bombastic proclivities of botanical authors. Let me illustrate this in a familiar way.

The way in which the sexes of plants meet and mate is as simple as the way in which animals meet and mate and the process does not need to be defined by long words difficult to remember. In a familiar way it may be said, the stamens are the fathers, the pistills the mothers, and the floral envelopes (calyx and corolla) the houses in which they live. But the two do not always live in the same house, which simple fact is described botanically by such hard words as dichinous, diecious, monoeceous, polygamous, monoeceous or dieciously polygamous, gynodioecious, andro-diecious, etc.

Now, inasmuch as they do not always live in one house and have no means of locomotion, the males have to do their courting by proxy. These simple facts, without which mating would be impossible, are given the unromantic qualifying names of anemophilous, entomophilous, aquamophilous and ornithophilous, as the love agent happens to be the wind, an insect, rain or a bird.

Again it happens with many flowers that the male or female is not in love simultaneously with the other. To accurately define this uncongeniality botanists use the words dichogamy, as a class or generic word, and proterandrous, proterogynous and synanthesis as specific words, meaning simply that the anthers mature before or after or with the stigmas. By such abominations, I say, young people are prejudiced against the

most simple, fascinating and God-inspired science known to man.

I have often heard of kits or outfits for crossing purposes, as if a variety of tools and special devices were required. They are of just about as much use as costly manicure sets are for the nails. In my practice a sharp pair of scissors, a pointed piece of wood, or even a wooden toothpick, a box for the flowers or pollen, sheets of tissue paper and a little strong yarn answer every purpose. A camelhair brush is rarely of service. If pollen can be gathered in quantity, as from rye, roses, honeysuckles, etc., it may be collected in boxes and applied from the point of a knife or by placing the ripe anthers themselves in contact with the receptive stigma.

You will not care to have me dwell upon processes. It is a thrice-told story. I would merely impress upon all the necessity of thorough work, and of abhorring all guess work. Open the bud, remove the green anthers, tie up the bud in close, fine tissue. Open it only to apply foreign pollen to the stigmas and at once again protect them from the possibility of contact with any other pollen. If, then, fruits and seeds develop, we know that the seeds are crossbreeds. We should be as confident as to the parentage of our seedling progeny as we are of that of our finest horses and cattle. Disregard of such teachings has led to endless confusion, as well as to wellgrounded doubts on the part of the public, that the parentage of many of our fruits and flowers is such as the originators claim them to have been.

Fifteen years ago I planted 62 different kinds of potatoes, each in a row 66 feet long, for the purpose of crossing them. Diligent search during the blooming period failed to reveal to me a single grain of pollen.

In 1874 we began crossing pelargoniums. The best varieties of that day were secured and our house filled with them. Each one was labeled with a parchment tag and numbered progressively from 1 to 500 or more. It was a simple matter to keep the record of parentage, since the number of the pollen plant was placed over that of the mother, making a proper or improper fraction in torn, as the case might be. I worked at this for two years during the plants' winter and early spring season of bloom. The result was 2,000 cross-bred seedlings, beautiful, symmetrical plants, as seedling pelargoniums always are. I had assumed in my inexperience that such painstaking, thorough work would insure astounding results. Already with delight had we thought of respected friends whose names we would give to the best of these wonderful seedlings. Our friends were spared the formality of thanking us for such honors, however. The wonderful productions—such as the world had never

dreamed of—were not among them. The whole lot was given away to those who cared to take them. Had we known as much then as we know now, quite a number would have been saved; for there were many queer, many charming seedlings among them.

I endeavored to cross the true pelargoniums upon the true geraniums, using *G. sanguineum* as the mother. We were delighted as we watched the formation of eight seeds—saddened when we found there was nothing in them—mere shells without embryos. I tried the potato on the tomato and failed.

The Alkekengi or strawberry tomato upon the potato produced one seed ball and four plants. These plants resembled potatoes in all ways save two, they never blossomed, and in the fall when the crop was harvested not one tuber—large or small—was found upon the underground stems.

Another interesting experience—though another failure—was with petunias. From abroad and at home we secured the best seeds procurable, selecting a large per cent of green margined strains. The best of these we crossed, which gave us the next year flowers which measured over seven inches in diameter. The corollas were deeply wrinkled and the green margins very wide. These were again crossed, though few seeds resulted. We watched over the several plants with a tender care full of hope to see, instead of flowers even larger than those of the year before, merely rosettes of green leaves without the rudiments of calyx, corolla, stamens or pistils. In this result there may be something homologous to the green rose, green apple blossoms, etc.

A cross of the Rose of Sharon (*Hibiscus syriacus*) upon *Hibiscus Moscheutos*—the Swamp Rose Mallow—gave us many seedlings which bore no resemblance to the Rose of Sharon, the pollen parent.

We worked for five or six seasons to improve the edible pea by crossing. The pea is self-fertilizing and it is necessary to cut off the top of the corolla as soon as it appears above the calyx and remove the anthers—nine in one bundle and one separate. Our first difficulty was to fix the crossbreeds. They varied indefinitely from year to year. Our next difficulty was that the pea weevils were so abundant that the crossed seeds failed to germinate or made a feeble growth.

For 14 years I have endeavored to change the old Tenn. white dent corn (re-introduced as Blount's) to one that would give twice as many ears to the stalk. The endeavor is still going on with little or no progress thus far. We are endeavoring to cross the renouée (*diervilla*) and honeysuckle (*lonicera*) with the bush and vine honeysuckles, the mock orange (*philadelphus*) and the deutzia, the smooth and prickly-fruited horse chestnuts, the catalpa upon the old trumpet vine, the currant and the gooseberry, the apple and the pear, the cherry and the plum—all in vain. Our grape crosses are interior.

Time admonishes me that unless I would leave you to think that all of our work in the way of crossing has resulted in absolute failure, I must hasten to tell you of some of our successes.

About 15 years ago we began crossing wheats. While engaged in this way it occurred to me to make the attempt to hybridize wheat and rye, the desire foremost in my mind being to effect something which had not already been effected by others. The result of manipulating and pollinating many heads was ten seeds, nine of which germinated and win-

tered safely. Eight resembled wheat in every way and the plants scarcely differed from the mother, which was Armstrong—a beardless variety. The ninth plant was peculiar in having hairy culms and long, narrow heads, of which there were about 20. And these 20 heads were so nearly sterile that they bore only a grain or so to the head. The other plants were all fertile, several of which were again pollinated with rye. It would take a long time to tell you the suggestive, instructive history of these plants. The rye plants which by blood are 15-16 rye. These were nearly sterile and all attempts to again cross with rye have resulted in absolute sterility. Some of 15-16 rye plants grow more fertile each year. Many of the 3rd rye are now fully fertile and so well fixed that we are propagating them for introduction, while three of the half-breeds have already been introduced. Many of the hybrids bear very large kernels, long heads with close spikelets. Some of them are as early as rye and perfectly hardy at my home. Thousands have been destroyed because of their conspicuous worthlessness.

Some years ago Prof. Wm. Saunders of Canada, told me he thought he had effected a cross between the raspberry and blackberry. We effected crosses the next season and every season since. The raspberry alone was used as the mother plant the first year. Some of the seedlings were raspberries in every way, some blackberries in every way, a few were intermediate. Whether an improved variety will come out of these remains to be seen. Thus far all that have been produced are imperfect berries, i. e., with from one to a dozen drupelets, while others bloom but do not set at all. Prof. Saunders' hybrids were from some accident destroyed before fruiting.

I may now speak of our hybrid roses. Let it be borne in mind that we have never raised a rose from any other seed than that borne by *Rosa rugosa*, the *Ramanas* rose of Japan. You all of you know it as very hardy, bearing leaves of exquisite beauty—thick, leathery, with a glossy wrinkled surface. The flowers are large, single, and in color white or pink. As yet we have used the first summer Harrison's Yellow, and that alone. This is a very hardy Austrian rose, with small leaflets, bearing semi-double flowers, yellow in color. Most of this batch of seedlings died from mildew. Only about thirty survived. When it is considered that *R. rugosa* differs from all other roses in such a marked way, one would naturally have supposed that its seedlings would be stamped with its peculiar characteristics rather than with those of the male parent, which may be said to resemble in a general way a hundred other roses. Such was not the case. Most of the seedlings resembled the male (Harrison's Yellow) in having small leaflets which were not of unusual thickness. The flowers were a yet greater surprise. All the single flowers are small, the colors being rose white, pink, dark pink. There were neither yellow nor pure white flowers. One bush bears small single flowers which are a feeble rose color around the edges, then white, and finally yellow about the base. Of the doubles, one bush bears pink flowers which are as "double" as a rose well can be. The leaflets show the *rugosa* blood plainly. Three others bear *rugosa* foliage. The flowers of two are semi-double, of the color of Gen. Jacq. The flowers of the third, which during the past year has been propagated for introduction by a leading nursery firm, are so nearly the color of Jacq. that they

can not be distinguished by color. The odor is also the same. It is as nearly a perpetual bloomer as is its mother *rugosa*. The leaflets, while preserving much of the thick, wrinkly texture, are larger than those of *rugosa*. Now, my friends, would you have guessed that the yellow Harrison's and the pink and single *Rosa rugosa* would have produced children that bear flowers so closely resembling in essential respects the Gen. Jacq.?

The next year we used pollen from hybrid perpetuans, and the next, as well as the present season, from yellow teas chiefly. Of these none that have bloomed are worthy of remark at this time. We have about 300 in all, while the present season has been specially favorable to an abundant harvest of hybrid seed. Probably we have no less than 3,000.

When the tempestuously hardy and distinct characteristics of *Rosa rugosa* are considered, you would suppose that the children of such a rugged mother would be healthy and strong. The fact is, however, that 9-10 die of mildew. It is worthy of remark also that not one seed in ten is viable. They are shells without embryos.

Finally, you have lately heard of "Child's Great Japan Wineberry." Though this is the *Rubus pheniceolacis* which has been in certain nurserymen's catalogues and in private collections for a dozen years, it is still a most remarkable raspberry worthy of a place in every collection. The forming berry is enclosed within the calyx-sepal which are covered with purple viscid hairs, like the bud of a moss rose. This protects the fruit from worms for all small insects are caught and held by the sticky exudation. As the berry ripens the sepals fall back. The berry, at first a bright, diaphanous scarlet, turns as it ripens to a rich ruby color. The berries are juicy and of a refreshing sprightly quality, with scarcely a trace of the peculiar raspberry aroma. Upon this we have succeeded in crossing both the blackberry and the rose.

Some Useful Foliage Plants.

Under the head of useful foliage plants quite a lengthy list might be given, as such a title allows of wide scope, but the object in the present instance is not merely to catalogue such plants, but rather to offer a few notes in the form of a reminder regarding some very serviceable plants for the general florist.

And first in the order of merit is *Pandanus Veitchii*, so well known as not to need any special description here, though its many good qualities seem to be better understood each year, and its use is correspondingly extended. In 3 or 4-inch pots it is admirable for dinner table-work or as a contrast in small ferneries, and to have pretty plants in pots of the sizes quoted it is necessary that small cuttings be used, and that the plants be given plenty of light so that the variegation will be clear.

Besides its value for general decorative purposes indoors, *Pandanus Veitchii* finds a good opening for outside work during the summer, either in vases or for sub-tropical bedding, though it is usually most satisfactory when so placed that it is shielded from the hottest of the afternoon sun.

Of course plants intended for such uses as this should be properly hardened off by means of free ventilation, before being placed outdoors, as otherwise the foliage will probably suffer from the exposure.

Another useful variegated plant, though of a very different type, is *Cyperus alternifolius* var., an old plant but a very



WREATH OF EARLY FALL FLOWERS

effective one, its graceful heads of narrow leaflets as well as their stems being more or less striped with pure white. Being a swamp plant, the cyperus naturally suffers from an insufficient water supply, and this condition should be carefully avoided else the ends of the leaves soon turn brown, and the beauty of the plant is spoiled.

The propagation of this cyperus is readily accomplished by means of division or by cuttings, the latter rooting in a short time if placed in a water tank in a warm house. Seeds also germinate freely, but as they invariably come up without variegation this method of increase is not an entire success.

Ophiopogon Jaburan var. is a plant that has not received any extended recognition among useful foliage plants, and yet it is easy to grow and decidedly pretty, besides being capable of withstanding much hard usage. It has narrow, graceful leaves from six inches to one foot in length and variegated with yellowish white, and the erect spikes of small purplish flowers are a pleasing addition to the plant. It succeeds in a temperature of about 50° and is propagated by division.

Another subject for which a variety of uses may be found is *Grevillea robusta*, the so-called Silk Oak of Australia, seedling plants of which are readily procurable and prove decidedly ornamental either for decorating or for bedding out in summer, the finely cut foliage having a very graceful effect.

This *Grevillea* is a rapid grower and in its native country sometimes attains a height of 100 feet, but this fact need not deter the florist from using it in a small state, as when the stock outgrows its quarters it is easy to throw it out and to bring on a fresh lot of seedlings.

There are also some useful plants to be found among the marantas, though many of the members of this family are too tender for general use. The very well known *M. zebrina* is already put to several different uses, and another that will doubtless be more used as its capabilities are better understood is *Maranta Bache-miana*, a dwarf variety introduced a few

years ago. The latter is of rather flat habit and has broadly-ovate dark green leaves which are marked with a series of dark chocolate blotches, the leaves being from three to six inches in length. *Maranta Bache-miana* grows well in light loam, and to give good service when used for house decoration the plants should be grown in an airy house during the summer, though requiring a moderate shade.

For mingling with small ferns in table ferneries or in other work in which moderate height is an object, *Aceris Japonica* var. will be found of much value, in fact it is already used in considerable numbers in arrangements of the character indicated above, and with good results.

Its prettily striped foliage and compact habit of growth make it a very desirable plant, the leaves ranging from four to eight inches in length. This plant is best grown in a cool house with plenty of light, thus keeping the variegation in good color, and like the other members of the Sweet Flag family, is naturally found in swampy ground, and in consequence enjoys liberal watering.

W. H. TAPLIN.

Wreath of Early Fall Flowers.

In response to numerous calls from florists in small towns for illustrations of simple, everyday arrangements as executed by the leading florists of large cities, we present herewith an illustration of a funeral wreath arranged by Mr. W. E. Doyle the Boston florist, in the latter part of August. It is not an elaborate piece but shows the prevailing style of arrangement among the florists of large cities at the present time.

The flowers used in this instance are hydrangeas, roses, lilies, tuberose, stephanotis, sweet peas and some other small flowers. At the bottom there is a background of common hardy ferns while *adiantum* ferns are freely used among the flowers. All the flowers set out well on long stems making the arrangement loose and graceful.

The wreath shown was arranged for a customer and was sketched by our artist just before its delivery.

Notes on Gladioli of Recent Introduction.

The California strain. In this we find no distinctive features whatever or any surpassing beauty. They are merely a good strain of gladioli (of *Gandavensis* section) raised from seed in California. The named sorts are not worthy of being grown, because they are far inferior to the named sorts of French and American varieties of to-day. In fact they are on a par with the French varieties of from 10 to 15 years ago, without the occasional variety of real merit which the French would occasionally send out many years ago, like Shakespeare, Meyerbeer, Norma, etc., etc.

Mr. Lemoine's usual number of named varieties of the Lemoine type show no exceeding merit, but show that he is running them in some cases very close to the *Gandavensis* type, and in time it will be very difficult to tell just where he leaves off and just where they begin. M. T. Vannier, Edison, Blaupreain are the best varieties of this year. Lemoine's new hybrid *Nancienis* section are distinct in type. It is well known that this is a cross between *Saundersoni* and the *Gandavensis* hybrids. They partake strongly of the habit of the *Saundersoni* type. The plant is taller and the stalk has the weeping tendency of the Lemoine and *Saundersoni*. The flowers are mostly set one above the other instead of two rows mismatching which gives a spike such a fine full appearance. The flowers also open similarly to the *Saundersoni*, only two or three flowers remaining perfect at a time.

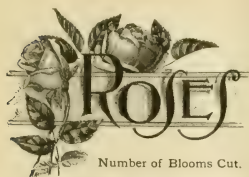
Friedl, of Switzerland, also sent out a new hybrid with considerable gusto which he calls *Turicensis*. It is without any merit whatever. The color is a poor pink, and while you can see *Saundersoni* blood in it the flower is ragged and has no shape whatever.

Max Leichtlin sent out a few bulbs of a new species, "Echiton." They are very dwarf, growing not over eight inches high. The habit is very distinct and we hoped the flower would prove a novelty. While it is new it is certainly void of all beauty. About half an inch in diameter and an inch and a half long, of a speckled lavender color with white in the small tube or throat. Only two flowers opening at a time. It may be valuable to cross with, but it would seem almost a waste of time to commence on something so far down. Ville de Versailles is quite a free bloomer, coming in late. Flowers are a swiftness such substance, but are lasting a long time, a very pretty pure white, with bright blood red blotches in the throat. For bouquets, vases or baskets they are certainly beautiful. They would scarcely be recognized by the average person as gladioli.

The Argentuil class has proved very fine and grows better every year. The reports from Kew where it was grown in small quantities places it ahead of all others.

In the *Gandavensis* varieties nothing of extraordinary merit is to be seen. In fact for the last three years the new French varieties have run on an average poorer than they did some time previous to this. No sorts appearing during the last year or two equal to *Apricot*, *Neride*, *Mine*, *Auber*, etc. *Allatross* was put out as the latest and best white. The colors are off. All the flowers on the spike had a purplish pinkish tone, shape poor and habit bad. It is not as good as *Fleur de Lis* of some three years ago. This latter is rather a pretty gladioli, quite white with distinct violet strains and stripes.

OCCASIONAL.



Number of Blooms Cut.

Mr. Ernest Asmus, of West Hoboken, N. J., the well known grower of roses for the New York market, has favored us with the following very interesting data regarding the number of blooms cut per plant, from the varieties of roses noted during each month of the season of 1888-89, and has given us permission to use in our columns. The fractions are given in decimals. A general average, showing the number of blooms cut from each plant during the season is also given. The teas were all planted about fifteen inches apart on the benches.

	Bons	Perles	Niphetos	Mermets
July 1888	.098	1.89	3.68	0.30
Aug. "	3.74	2.61	4.78	.000
Sept. "	4.47	5.26	3.91	4.13
Oct. "	4.35	5.40	8.09	3.12
Nov. "	4.81	2.84	4.42	2.23
Dec. "	2.88	2.84	3.92	2.40
Jan. 1889	2.33	1.39	1.89	3.41
Feb. "	2.34	1.76	2.43	2.03
Mch. "	2.78	2.05	3.29	4.11
April "	5.96	3.55	5.94	4.00
May "	4.63	4.41	9.13	6.59
June "	0.94	5.60	8.47	6.00

Gen. av. 40.84 39.74 58.08 40.44

	Brides	Cusins	S D Am	Gontiers
July 1888	.000	1.13	.37	.000
Aug. "	.000	3.29	1.27	.000
Sept. "	.59	5.49	9.08	.17
Oct. "	3.08	5.41	5.07	4.01
Nov. "	2.75	4.11	4.72	5.09
Dec. "	1.88	3.68	3.41	1.99
Jan. 1889	2.11	3.59	3.03	2.94
Feb. "	2.21	4.65	2.50	1.53
Mch. "	3.58	8.22	3.94	2.69
April "	3.75	8.38	4.18	4.24
May "	7.34	7.46	4.99	3.89
June "	8.08	6.96	5.12	1.20

Gen. av. 35.46 62.61 47.52 27.78

	Watteville	LaFrance	Bennett	Beauty
July 1888	.000	.05	.37	.000
Aug. "	0.27	.000	.35	2.64
Sept. "	4.17	4.76	4.25	.96
Oct. "	4.16	2.95	1.61	.41
Nov. "	2.85	1.66	2.62	2.00
Dec. "	1.97	1.18	1.55	.36
Jan. 1889	1.81	.86	.87	*
Feb. "	1.12	.94	1.10	*
Mch. "	2.14	1.13	1.66	*
April "	3.36	1.22	1.67	*
May "	4.15	.57	1.72	*
June "	4.85	*	1.68	*

Gen. av. 30.85 15.32 17.46 6.48

	Vivans	Suisse	Wootton
July 1888	.000	.000	.000
Aug. "	.000	.000	.000
Sept. "	4.09	2.61	7.17
Oct. "	11.82	4.54	8.08
Nov. "	3.51	2.77	5.75
Dec. "	8.25	3.08	3.92
Jan. 1889	1.43	1.45	4.08
Feb. "	4.14	2.57	4.42
Mch. "	4.84	2.47	6.50
April "	8.09	4.03	.000
May "	8.45	4.80	.000
June "	10.77	5.52	.000

Gen. av. 65.43 34.20 39.91

* Thrown out. † Half thrown out May 1.

Below we give the general average for the season of 1888-89, from figures also supplied by Mr. Asmus, regarding which he writes: "You will find quite a difference in the production of some roses this season compared with that of last season. The reason is that I began cutting either later or earlier as the case may be. My whole season runs from July 1 to June 31, but some houses I don't begin to cut from until October and November, which was the case this season with Hoste and Mermets and some others, whereas Niphetos run through the whole season."

	Average per plant for season 1888-89.
Cusins	46.51
Watteville	46.38
Mermets	27.12
Niphetos	30.98
Brides	64.02
Perle	38.00

A Boston grower who wishes his name withheld has kindly sent us the following data regarding his clip for the season 1888-89, regarding which he writes: "All the roses were planted from 4-inch plants in shallow benches except one border of Bon Silences which have been in for years, and on border of Mermets and a few worked Perles. I have counted the Perles and Sunsets all together as we do not separate them when we sell them. The record is for flowers sold in the city at wholesale. To the figures given 10 per cent might be safely added for flowers used at home, and of which no record has been kept. The figures show the number of blooms cut from each plant during each month of the season, the fractions being in decimals.

	Bons	Perles	Niphetos	Mermets
July 1888	.67	.76	.000	.66
Aug. "	2.72	1.47	.07	.93
Sept. "	2.54	2.22	2.07	1.31
Oct. "	3.49	2.72	2.73	2.03
Nov. "	1.71	1.05	2.05	1.04
Dec. "	1.29	1.00	2.15	.85
Jan. 1889	.83	.60	.96	.67
Feb. "	.81	.74	.86	.58
Mch. "	.80	.84	1.53	1.09
April "	1.90	1.56	2.37	1.65
May "	2.62	1.76	3.18	2.04
June "	1.92	1.96	4.36	1.12

Gen. av. 21.33 16.70 22.35 13.89

	Brides	Gontiers
July 1888	.30	.00
Aug. "	.63	.00
Sept. "	1.21	.00
Oct. "	1.33	.83
Nov. "	.94	1.38
Dec. "	.83	2.20
Jan. 1889	.66	1.73
Feb. "	.67	.93
Mch. "	1.16	1.88
April "	1.20	4.10
May "	1.85	6.15
June "	1.22	8.53

Gen. av. 12.03 27.75

Below we give the average number of blooms cut from each plant at Mr. W. J. Gordon's rose houses, Glenville, O., a suburb of Cleveland. All the plants were young stock bunched in June 1889. In making comparisons of the general averages it must be borne in mind that this record covers only eight months while the others cover twelve. But the comparison of one variety with another in the same record is still equitable.

	Bons	Perles	Niphetos	Mermets
Aug. 1889	.00	.53	.00	.27
Sept. "	.05	2.83	.23	1.92
Oct. "	1.57	3.12	2.22	2.41
Nov. "	1.43	2.59	2.20	1.87

Dec. "	.76	1.55	1.09	1.17
Jan. 1890	.48	1.03	1.04	.72
Feb. "	.36	1.24	1.57	.89
Mch. "	.57	1.34	1.50	1.18

Gen. av.	5.22	14.23	9.85	10.43
Brides		Gontiers	Bennett	LaFrance
Aug. 1889	.14	.00	.00	.26
Sept. "	2.89	.00	.00	2.41
Oct. "	2.25	3.53	3.31	1.76
Nov. "	2.02	2.88	1.16	.89
Dec. "	.88	3.22	1.79	.62
Jan. 1890	.49	.30	.54	.89
Feb. "	1.30	.00	1.61	.43
Mch. "	1.02	.19	1.60	.85

Gen. av. 10.99 10.12 10.01 8.11

Aug. 1889		Watteville	Beauty	Wootton
Sept. "	.00	.77	.76	.76
Oct. "	2.74	.80	.73	.73
Nov. "	1.15	.61	.23	.23
Dec. "	.20	.44	.72	.72
Jan. 1890	.05	.08	.05	.05
Feb. "	.46	.26	.39	.39
Mch. "	.42	.37	.64	.64

Gen. av. 5.02 4.82 3.47

As six varieties of roses are named in each of the three records, we are enabled to give general averages of the three records on those varieties. They are as follows: Bon Silences, 22.46; Perles 23.55; Niphetos, 30.09; Mermets, 21.35; Brides, 19.49; Gontiers, 21.88.

While the records vary greatly as to the average cut per plant from the same varieties it will be noted that in nearly every instance the comparative productiveness of the varieties, is approximately the same. One notable fact shown by these records is that with the large grower Niphetos is considerably more productive than Bon Silences, though the latter is popularly supposed to be the freest bloomer of the forcing teas. Of the six varieties noted as being on all the lists Niphetos stands at the head in two while Perle occupies that position in the other.

We have in mind many deductions of considerable practical value which may be made from these figures but reserve them for the time when we can obtain a larger number of records from which we may obtain a more general average. Will you do your share in supplying the necessary data?

Modern Rose Forcing Houses.

We present herewith views of rose houses constructed upon the plan now adopted by all large growers of roses for cut flowers when erecting new houses for this purpose. The illustrations will be of no interest to those who have visited the establishments of any of the large growers, but they will undoubtedly be very acceptable to the very large number of our readers who have not been so privileged. The houses shown were built by Thos. W. Weather's Sons, the horticultural business of New York city and were each 300x18½ feet.

Climbing Perle and Niphetos.

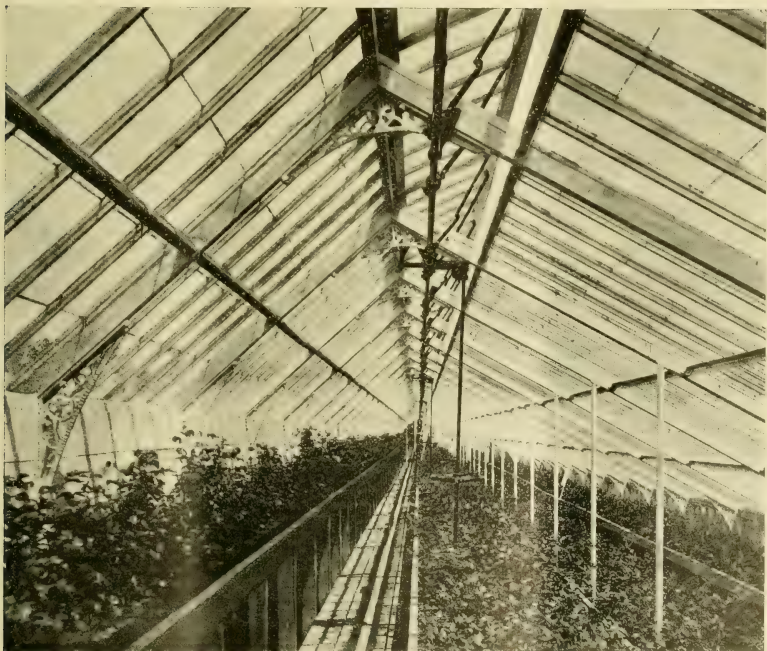
Will someone who has given the roses Climbing Perle and Climbing Niphetos an extended trial say whether or no they are profitable for winter forcing.

J. A. BALMER.

HAIR INSURANCE.—Parties remitting assessments to the treasurer of the Hair Association, should always enclose with remittance the regular notice received by them from the secretary, otherwise proper entry cannot be made.



EXTERIOR VIEW



INTERIOR VIEW



New Orchids.

CYPRIPEDIUM ARNOOLDIANUM.—New hybrid, artificial. *Veitchii* × *concolor*. Leaves four inches long by two inches wide, light green with hieroglyphic-like tessellation of dark green, stem five inches high, dark brown with white short down. Ovary six ribbed, slightly downy. Flowers large, measuring nearly four inches across the petals. Dorsal sepal nearly round, slightly recurved on the sides, lemon color at the base extending upwards. The veins are of vinous purple slightly shading over the ground color. The lower sepal is of the same color only the veins are not so pronounced. Petals two inches long, very broad, the inner portion lemon color while the outer portion is shaded with vinous purple; three fourths of the inner surface is covered all over with dark spots as in *C. Veitchii*. Lip is long with narrow opening, bright lemon yellow at the base with deep vinous purple veins and dottings in the upper part. The column is light green and the stamode, which is horse shoe shape, lemon yellow with purple border. This beautiful hybrid, which is well intermediate between the two parents, was raised at Short Hills in less than two years. This is the quickest time on record for *cypridiums*, and especially so if we consider that *C. concolor*, one of the parents of this hybrid, is a very slow grower. Another noteworthy fact is that this is the first distinct hybrid of American origin that was raised in an ordinary greenhouse open to the public in general, also that it was raised by a young man, Jos. Manda, Jr., whose age is less than the time it takes an average cattleya to flower from seed. This beautiful distinct hybrid is appropriately dedicated to Hicks Arnold, Esq., of New York City, an ardent amateur of choice orchids.

CYPRIPEDIUM INSIGNE NITENS.—This beautiful variety differs from the type by its very large bright leaves, long stems which reach sixteen inches in length, and the flower which measures five and one half inches across. The whole flower has a uniform yellowish tinge, while the large dorsal sepal which has a bright white margin is spotted with brown purple dots in irregular rows. This variety has a resemblance to the hybrid of the same name.

CYPRIPEDIUM LAWRENCEANUM VAR. PICTUM.—A distinct variety with remarkable dorsal sepal, which is narrow, pointed and recurved. One fourth of the area on each side is washed with rich vinous purple as if painted, and irregularly dotted all over with blackish warts presenting quite a new and distinct appearance.

W. A. MANDA.

Hail Insurance.

Members of the Florists' Hail Association who have not paid their assessment should remit at once, as the time for payment expires on October 20, after which date membership will be forfeited in all cases where the assessment has not been paid. Send your assessment blank with your remittance.

JOHN G. ESLER, Secretary.

Eucharis Amazonica.

Perhaps a few words on the culture of this plant will not be amiss, for it is when well grown a very useful plant for the florist, and will be found to excel everything for sweetness in the conservatory.

To have these plants in bloom during the autumn and spring months it will require a temperature of 65° at night, rising to 75° with sun heat in the day. Where this temperature is maintained syringing two or three times a day is advisable. The soil should consist of two parts of rich loam to one of leaf mold and decomposed cow manure with a little bone added, and about a quarter of the pot well drained will answer; if potted in this way it will not be necessary to do more than topdress the plants annually, repotting only once every three or four years. When the plants are growing vigorously liberal supplies of tepid liquid manure and an occasional dressing of artificial manure will help them wonderfully to put forth their beautiful white flowers. It is necessary that they should have a partial rest during the summer months, keep them in a cool and shady place; in fact, always keep them shaded from the sun, as it will surely parch the soft foliage of these plants. If this course is taken with old established plants they will bear at least two crops of flowers every year.

PETER MACDONALD.

Summit, N. J.

Long Island Notes.

BY WM. FALCONER.

JUDGING from the large quantity of unsold flowers I saw in New York the other day, it is more how to get rid of flowers than how to increase them that would seem to most concern us.

PYRETHRUM ULIGINOSUM was in its finest condition about the middle of September. A hardy perennial, extremely free flowering and easily raised from seed or division. Acting on advice given in an English paper I cut back some of our plants after they had grown a foot or more high. This treatment dwarfed them, but otherwise did not benefit them any.

The plain white Japanese anemone is the best of the species, and both beautiful and desirable and now in fine condition. The drenching rains we have had recently have stained the outside flowers, but those under the shelter of sashes are unmarred.

CLEMATIS STANS.—After *C. Davidiana* and *C. tubulosa* both are past now comes this handsome hardy plant in full bloom. Its flowers are bluish white, small, fragrant and abundant. This is a hardy perennial of sterling merit.

DELPHINIUM GRANDIFLORUM.—A second crop is now in fine condition and fuller than that of any other species. The single ones only are worth bothering with. The double ones are pretty but milky, and the semi-doubles poor in kind and color.

CELOSIA PLUMOSA, or feather cocks-combs raised from seed sown May 28 are in fine condition now and vastly better than those raised from March sowings.

SCABIOSA from early spring sowings and which were cut back after their first flush of flowers was over are blooming well again, but the best crop is being borne by sowings made during the first week of June.

HELENUS AUTUMNALE is a tall yellow-flowered but handsome perennial for the border. It keeps in good bloom for 8 or 10 weeks. A much dwarfier form is called

nannus; in flowering, freshness and fullness it resembles the typical tall one. It is sometimes sold as *Corocopsis precox*.

SALVIA FARINOSA is a neat species with lavender blue flowers and very generous in bloom. It is not hardy here. Although a perennial we treat it as we do *S. splendens* or *S. coarctata*, namely, always raise our fresh stock from seed. *Salvia Pichei* also a perennial but barely hardy is now in fine bloom, so too are the blue, lilac and white forms of *S. patens* raised from seed last spring.

Although *Aster levis* is a common wild species it is one of the handsomest of garden flowers.

DESMODIUM PENDULIFLORUM is in its heyday in September. Although of subshrubby nature we cut over ours close to the ground every year as one would a pilox or larkspur, and this treatment suits it best. The clumps are now six feet high, more than this across and a solid shower of reddish-purple pea flowers. Of no use for cut flowers, but very desirable as a garden plant. The white-flowering form is commonly known as *D. Japonicum*, and although beautiful and desirable in its way is not as free and airy as the *penduliflorum*. Botanists give us *Lepedeza bicolor* var., as the proper name of these *desmodiums*.

SUMMER SOWINGS of *Corocopsis Drummondii* and *C. coronata* are in very gay bloom just now. I have succeeded in getting some quite striking hybrids between these two species. The habits of the hybrids usually lean towards *Drummondii*, but the blossoms are often very intermediate. They do not yet come always true from seed, but the varietal nature is not quite fixed enough.

AND BETWEEN *Rudbeckia bicolor* and *Lepachys pulcherrima* plants have not some very curious and pretty hybrids. The habit leans to the *Rudbeckia*, the flowers are every which way.

COXICLINUM COLLESTINUM or mist flower is an ageratum-like perennial indigenous to the south, and hardly here if mulched in winter. It is now in gay bloom and quite pretty. Very easily increased from seed or division of the roots.

The continuous rainy weather about the middle of September killed some hardy plants and partly destroyed many others. It rotted off both roots and leaves. In low heavy ground the destruction was greatest, in well drained sandy land, least. This teaches us how important it is to have our nursery grounds so arranged and prepared that water can not lie about them anywhere. Where the land is level and heavy it is well to raise and roll the nursery beds enough to readily shed the water into the alleyways between them.

ROSA MITIS is a wild rose indigenous to swamps from Newfoundland to Massachusetts, and rare in cultivation. It grows from two to three feet high, has very glossy leaves and mossy-prickly stems. It is now laden with round bright scarlet fruit which is very ornamental and so persistent as to remain upon the bushes over winter and till next spring. It keeps its foliage late into the fall and the leaves color up very brightly in autumn. Although it is an inhabitant of swamps it takes root in garden cultivation and spreads considerably at the root. This together with *Rosa rugosa* and *R. rubrifolia* have now the fullest and brightest crop of ornamental fruit. A little later on *R. lucida* will also show up prettily and so too will the polyantha roses, especially the one called *simplex*.



CYPRIPEDIUM ARNOLDIANUM

HELIANTHUS MAXIMILIANI is now (Oct. 4) in fine bloom and it will probably continue in good flower till towards the end of the month. In moderately mild localities, as this is, it is a very desirable and showy plant, and especially valuable for its late blooming nature. It grows from seven to ten feet high and its long stems are terminated for two or three feet with bright golden yellow flowers set in close to the stem. The species is a native of the plains and prairies west and southwest of the Mississippi, and although not generally regarded as being perfectly hardy in the north we find it hardly enough here. Very easily increased by division and root sprouts in the same way as is *H. multiflorus*.

Philadelphia.

Roses are more plentiful and of better quality. Prices (wholesale) remain very low.

Business is still moving in the right direction. Coles & Whiteley are cutting some fine *La France* as well as other popular kinds of roses.

The Rowlandville Evans' are bringing in some good American Beauties. So also are Griffin's of Frankford.

George Anderson is cutting little or nothing yet. This time last year he was cutting large quantities. He thinks he ruined his winter's crop by so doing, and that is the reason he is picking buds off now, instead of cutting flowers with long stems. It is to be hoped that George will have better luck this winter than he had last.

C. D. Ball has given up growing roses entirely, as they were very unsatisfactory the past few seasons. He now devotes his whole place and attention to growing palms, ferns and plants of a like character.

H. A. Dree's big establishment at Riverton is a model of neatness and system, yet roses, carnations, etc. do not do well there. Palms, ferns, etc., luxuriate in fine health and may be found there in great abundance.

John Burton has not commenced cutting roses yet, and his neighbor Edwin Lonsdale is cutting very few. Mr. Burton is heavier in hybrids this year. His success last season was remarkable. Even the crops of the great growers for the New York market were no better and in some cases they were not so good. What he depends upon for main crops are Bruner, Laing and Luizet. He has a house 150 feet long of American Beauties which are exceedingly fine, no signs of black spot. The foliage is a beautiful dark rich color. Look out for some prime flowers from this establishment this winter. There is also a fine house of Woottons here. This much abused rose was one of the best paying varieties Mr. B. had last winter. Now, when it comes to palms, the largest and finest areas in the country are to be found here. The way John stole a march on the old palm growers is a matter for congratulation.

Thomas Butler, of Chestnut Hill, has built a rose house and a carnation house each about 50 feet long, which are to be heated by steam.

Craig & Bro. have built a new rose house on the May pattern in which are planted nearly all the standard winter flowering sorts. The older rose houses look promising. Mr. Robert thinks well of *Mme. Hoste* and *Duchess of Albany*. The number of *adiantum*s here are uncountable. They never had so many before, and they are in excellent condition. Palms still remain a leading feature at this most popular establishment. Sizes from the tiny seedling to the graceful specimen may be found here in all the well known varieties. Tuberous rooted begonias and gloxinias are to be made a specialty for next winter to be sold mainly as pot plants in bloom for window and other decorations, for which purpose we are assured they are admirably adapted.

It is said that C. H. Grigg will again tempt Dame Fortune in the flower business. He expects to open in time for the busy season.

If Madame Cusin will be wanted this winter there will be lots of them, judging from the number planted.

Will pink be the fashionable color next winter? Some predictors who make a study of such matters say no.

The bowlers who represented this city in the contest at dear old Boston, have been challenged to roll a match of ten pins with a carefully selected team which has systematically been practicing for these many weeks. The practice has been so thoroughly and persistently carried on and the outcome is so satisfactory that the result is a foregone conclusion. This will be news to some people because at one time it did look as though a team could not be secured to compete at Boston, and this match is brought about to prove that a grave mistake was made in the selection of the component parts of that team.

Robert Craig is being congratulated on all sides since he bought 30,000 bushels of coke from the city at 3 cts. per bushel, excepting by those who are just a bit nervous lest they will not be able to get their regular supply. It was a grand stroke of business—a saving of fully 50 per cent on next winter's fuel.

John Thorpe and J. D. Raynolds were in Philadelphia last week.

Chrysanthemums! Well, if it's *chrysanthemums* society wants there'll be lots of 'em and good 'uns too. Never were preparations more completely made to supply the Quaker city with good cut blooms than there has been this year.

It is gratifying to note in the Boston news of last issue that a full representation of the boys from Boston will be here at our *chrysanthemum* show. We'll try to make them and all the fraternity who will take the time and trouble to pay us a visit. WELCOME. E.

Montreal.

The annual exhibition of the Montreal Horticultural Society was held in this city September 23-26 at the Victoria Rink. There was a grand display of plants and flowers, the entries being more numerous than ever before, and the quality being above the average. A table of orchids exhibited by Pitcher & Manda, of Short Hills, N. J., was the finest display of these flowers ever seen in Canada. The exhibit was not entered for competition but was awarded a diploma. A seedling begonia exhibited by A. Pinoteau was also given a diploma. A special diploma was given to Colin Campbell for a dinner table decoration.

In place of first premiums were awarded to W. Wilshear for collection of decorative and flowering plants, table 50 feet, foliage begonias, twelve distinct species of ferns, bromeliads, six distinct varieties of palms, collection palms; to W. Spriggins for collection of decorative and flowering plants, table 75 feet, collection *adiantum*s, six gloxinias in bloom, hanging basket, vase of plants and selaginellas; to J. Stanford for specimen *adiantum*, *cladium*s, six fancy *cladium*s, six coleus, six crotons, six dissimilar dracaenas, six distinct species of ferns, marantas and collection stove plants; to F. Logan for tuberous begonias; to W. Bendon for distinct varieties of begonias; to S. Ward for three dissimilar crotons, gloxinias and greenhouse plants; to I. J. Kirkwood for specimen cypripis; to J. Betrix for tree fern; to Geo. Trussell for zonal geraniums, double geraniums, bronze and tricolor geraniums; to J. Walsh for ficus, *Lygodium scandens* and plants for table decoration.

In cut flowers etc. first premiums were

awarded to W. B. Davidson for annuals, double petunias, tea and noisette roses, verbenas, two hand bouquets, four corsage bouquets and collection newest roses; to J. B. Goode for asters—12 blooms, zinnias—12 dissimilar blooms, Phlox Drummondii and collection asters; to W. Bell for collection double dahlias, pompon dahlias and zinnias; to D. F. Bell for twelve varieties double dahlias, single dahlias, single petunias, six dissimilar begonias, dahlias and six spikes gladioli; to J. Eddy for collection dianthus and Phlox Drummondii; to A. Joyce for twelve spikes gladioli, eight spikes gladioli and vase of cut flowers; to E. J. Maxwell for twenty-four dissimilar pansies and twelve dissimilar blooms pansies; to B. F. Graves for perennial phlox; to G. Trussell for zinnias and vase of cut flowers; to J. Kirkwood for hand bouquets; to T. W. Burdon for decorative and flowering plants, abutilon in bloom, begonias, two begonias, six exotic ferns, foliage plants, three fuchsias, specimen fuchsia, double geraniums, single geraniums, heliotrope, double petunias and six dissimilar blooms double petunias; to P. A. Somerville for rex begonias, hanging basket, Lycopodium and basket of cut flowers; to T. Gardiner for hydrangea and ivy; to Sergt-Maj. Phillips for collection asters, six spikes stocks and twelve blooms verbenas; to Jessie S. Maxwell for hand bouquet and vase of cut flowers; to K. Jack for collection cut flowers; to J. F. Smith for six dissimilar blooms of pansies.

Hamilton, Ontario.

At the Great Central Fair held in this city the latter part of September there was an excellent display in the department of plants and flowers.

For plants first premiums were awarded to F. G. Foster for twelve greenhouse plants, new and rare plants, coleus, foliage plants, exotic ferns, collection of ferns, flowering begonias, foliage begonias, tender roses in pots, display of plants distinct from other entries, double geraniums and tuberous in pots; to Jas. Rowe for six greenhouse plants, fuchsias in bloom and hanging basket; to A. Reid for cockscombs in pots; to Geo. Anderson for foliage plants; to Wm. Hunt for tuberous begonias and caladiums in pots; to John Morley for single geraniums, tricolor geraniums and scented geraniums; to Alex. Sinclair for variegated or bronze geraniums and carnations in pots.

For cut flowers first premiums went to Jas. Ogilvie for collection of annuals; to Thos. O'Veale for asters, collection asters, three of each color, bouquet of everlastings, flowers, collection dianthus, six varieties of hollyhocks, twelve varieties of pansies, largest and best collection of pansies and collection sweet peas; to A. Terryberry for six varieties of asters, pompon dahlias, six varieties of gladioli, six varieties French marigolds, six varieties pansies, collection Phlox Drummondii and largest and best display of cut flowers correctly named; to Jas. Rowe for table bouquet, hand bouquet, hybrid bouquet, twelve varieties perennial phlox, basket cut flowers and flat design in white flowers; to John Morley for button hole bouquets and balsams; to A. Reid for twelve standard varieties of dahlias, six standard varieties of dahlias, pompon dahlias, collection of dahlias, single dahlias, largest collection gladioli, double petunias, single petunias, any one variety of roses and collection of double zinnias; to J. L. Harper for twelve varieties dianthus, six varieties African marigolds, stocks, twenty-four varieties verbenas and twelve

varieties verbenas; to Geo. Anderson for collection hollyhocks; to F. G. Foster for twelve tea roses; to John Gardner for hybrid remontant roses.

Boston.

The cut flower market remains dull, the supply of roses being in excess of the demand and consequently low prices still prevail. Quality is improving, however, and much of the stock now coming in is very good.

There are a few American Beauties seen, but these are not yet up to average quality. Wattle-villes seem to be much more generally grown this year than heretofore, and the prospects are that Gontiers will be largely in excess of last season.

Carnations, especially white, are in brisk demand at fair prices, but the white asters still stand in the breach and keep figures from going very high. An occasional spray of chrysanthemums is to be seen in the florists' windows. Violets are beginning to come in, but quality is only medium. Lily of the valley has been in good demand and somewhat scarce. Orchids are being called for from all directions, but there are none to be obtained. Smilax is in good supply, adiantums are abundant and good, Asparagus plumosus is also of excellent quality, and tuberous are very abundant. Outdoor flowers have suffered more from frequent rains and heavy dews than from frost, there having been but one frost yet in this vicinity that has done any injury, and that quite slight. Even colouses in favored spots are still quite bright.

A beautiful exhibition of cultivated native asters was made at Horticultural Hall on Oct. 4, by Geo. Hollis. There were in the collection fifty species and varieties, some of them not rare.

The annual meeting and election of officers of the Mass. Hort. Society took place on Oct. 4. The greater number of last year's officers were renominated and these were all re-elected with the exception of ex-president Walcott who was defeated for the executive committee. Mr. J. F. C. Hyde being elected in his stead.

At the October meeting of the "Gardeners' and Florists' Club" the newly elected president, Mr. L. H. Foster, made a pointed and instructive address. He counselled wise and judicious management of the club's finances with a view to the possible attainment some time in the future, of a permanent home.

The condition of the club financially and numerically is excellent, and its prospects are exceedingly bright.

W. J. S.

Chicago.

A charter has been secured from the Secretary of State for the "Horticultural Society of Chicago," and a call has been issued for a meeting to complete the organization.

Subscriptions for the Chicago Flower Exchange are rapidly accumulating. The amount of stock apportioned to each one is small, it being desired to have every one of the Chicago market take at least one or two shares so that every one will have a voice in the management of the exchange.

The attendance at the weekly meetings of the Florist Club is large and the members are lending themselves with a will to the work of making the coming exhibition an improvement over the last one.

The plan adopted last year of selecting judges of floral arrangements from among the ladies who are the best patrons of the florists will be pursued again this year. Last year the awards were in the main

well made and the interest developed among the people whom it is most desirable to interest in the exhibition, by the selection of judges from among them was of very material value to the club and to the trade in this city.

The coming exhibition will be held at the Second Regiment Armory, on Michigan Ave., the same building in which the last exhibition was held. The complete premium list is being printed and will be mailed to all interested in a few days.

Mr. Paul Berkowitz of H. Bayersdorfer & Co., Philadelphia, was in Chicago last week in the interest of his house.

The Committee on Classification of the exhibits at the World's Columbian Exposition are at work, and we will soon know what provisions have been made for Horticulture at the great exhibition of 1893.

Mr. J. D. Reynolds, president of the Florist Club, made a flying trip to Washington and Philadelphia last week.

Mr. H. A. Bunyard, representing the United States Nurseries, Short Hills, N. J., visited the trade in Chicago recently.

St. Louis.

The Exposition management offered \$1,500 in premiums for displays of plants and flowers on September 29 and 30, the two evenings devoted to floral exhibits.

On the first night the awards were for groups of decorative plants and for parlor decorations.

Prizes amounting to \$400 were awarded for the groups and prizes amounting to \$225 were given for parlor decorations. The judges were the florists themselves, each man voting on every display except his own and the awards were made according to the number of points scored.

The awards were as follows: For groups of plants—Schray first award, scoring 82 points; Waldbart, second award, 72 points; Ellard, third, 63 points; Juengel & Sons, fourth, 56 points; Jordan, fifth, 46 points. For parlor decorations the awards were: Ellison, first, receiving 89 points; Jordan, second, and Ellard, third, only three florists competing.

The second night the competition was in floral arrangements.

For table decorations the awards were as follows: Ellison, first, receiving 92 points; Jordan, second, receiving 72 points; Ellard, third, 71 points. The sum of \$175 was distributed among the three contestants according to the proportions of their points.

For best floral design, Ellard Floral Co. stood first, receiving 84 points; Ellison, second, 80 points; Jordan, third, 72 points. Seventy-five dollars was distributed among these three contestants.

For basket displays, Ellison stood first, receiving 75 points; Jordan, second, 72 points; Juengel, third, 61 points. Seventy-five dollars was distributed.

For bouquet, Jordan stood first, receiving 76 points; Ellison, second, 73 points. Fifty dollars was distributed.

Springfield, Mass.

The fall exhibition of the Hampden County Horticultural Society was held at Union Armory, Springfield, Mass., September 23, 24 and 25, and, although the attendance was not large, it was a very creditable show. This was the fourth exhibition here this season which betokens the widespread activity in such channels. This display has been especially in the vegetables and fruit commonly de-

nominated "garden sass." The flowers and plants were much better than have ever been shown here in the past.

The following were the professionals exhibiting: L. W. Goodell, Pansy Park, Dwight, Mass., who took five prizes and showed verbenas, marigolds, zinnias, Euphorbia heterophylla, calliandras, gladioli, dahlias, Phlox Drummondii, petunias, nasturtiums, Japan pinks and fourteen varieties of aquatic plants, including a leaf of Victoria regia, H. P. Hart, Brightwood, Mass., two prizes, dahlias, Miller Bros., Springfield, Mass., three prizes, an inclined cross of Perle roses resting on a base of ferns and lilies of the valley set off by a cluster of Gontiers, hand and vase bouquets, cut roses, cut carnations in variety, large basket of cut flowers, palms, bulbs and requisites. A. B. Howard, Belchertown, Mass., four prizes, helianthus, petunias, lilliput zinnias, verbenas, asters, marigolds and seedling grapes. Mieliez Horticultural Co., Springfield, Mass., four prizes, eyecads arranged on an immense rockery and cut roses. Gale Floral Co., Springfield, Mass., four prizes, an anchor of red and pink roses reclining on a cross of lilies, on a base of lycopodium, a bride's basket, hand and vase bouquets. N. J. Herrick, Springfield, Mass., one prize, bulbs, and a large collection of ferns, palms and ornamental plants. J. W. Adams & Co., Springfield, Mass., trees and fruit. Dexter Snow, Chicago, Mass., one prize, a floral Odd Fellows' link on a standard, a miniature carpeted bed of alternantheras and ferns. J. Atkins, Springfield, Mass., one prize, dahlias. B. L. Bragg & Co., Springfield, vegetables grown on their seed.

Although there was about an even number of professionals and amateurs exhibiting the amateurs took the most prizes.

ALFRED B. COPELAND.

News Notes.

SAN DIEGO, CAL.—A chrysanthemum fair will be held in this city the first week in November.

ATCHISON, KAN.—E. C. Schwein is reported to have sold out his florist business in this city.

SPRINGFIELD, MASS.—The Hampden Hort. Society will give a chrysanthemum show in this city Nov. 13 to 15 inclusive.

JACKSONVILLE, FLA.—The Florida Sub-Tropical Exposition will open in this city about the second week in January. A special feature will be the displays of tropical and sub-tropical fruits and flowers.

WATERBURY, CONN.—Alexander T. G. Dallas, son of Alexander Dallas, the florist, died recently aged 17 years. He was a promising youth and his father's friends in the trade will be grieved to hear of this bereavement.

CINCINNATI.—The committee from the city council and the trustees of the late Mr. Mary Howard have agreed to locate the new flower market in the square on Sixth street between Elm and Plum, the old hay market.

TROY, N. Y.—Florist Louis Menand made a magnificent display at the N. Y. and N. E. Fair which closed October 1. His display occupied three tables extending nearly the whole length of horticultural hall and contained a host of rare and beautiful specimen plants.

LOUISVILLE.—The florists of this city had a tremendous rush of business on ac-

count of the Satellites' ball held the evening of Oct. 2. Though large lots of flowers had been received by express from other cities in addition to the home supply they were unable to meet the enormous demands made upon them.

BUFFALO.—A chrysanthemum show will be held at Music Hall, November 13 to 15, by the Buffalo Florists' Club. A liberal list of premiums is offered and the enthusiasm of the members of the club augurs well for the success of the exhibition. Entries in all plant classes close November 7, and in classes for cut flowers and floral arrangements on the 10th.

MILWAUKEE.—Messrs. Currie Bros. and G. W. Ringrose were the only competitors in the class for professional florists at the recent fair. Currie Bros. took first premiums for best floral design, best basket, best collection of cut flowers and best bouquet. Mr. Ringrose taking second in same classes. In the remaining ten awards seven first and three second prizes went to Currie Bros., and three first and seven second to G. W. Ringrose.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED.—By gardener on private place, German, age 30, married, one child. Address: CHAS. BICKEL, West Park, N. Y.

SITUATION WANTED.—By a young German on commercial place, roses, carnations, 15 years experience. Address: N. Z. care American Florist.

SITUATION WANTED.—By a thorough plantman and propagator, either private or commercial. Address: C. J. STEVART, 67 Bromfield St., Boston, Mass.

SITUATION WANTED.—As gardener, private or commercial, posted in all branches, 30 years experience. English, married, age 35. Address: G. S. F. O. box 18, Merrick, Mass.

SITUATION WANTED.—By practical man of 18 years experience in growing cut flowers and plants on commercial place. Address: L. G. care American Florist, Chicago.

SITUATION WANTED.—On either private or commercial place until Nov. 1 near Philadelphia. Baltimore or New York; good references. Address: J. F. 1201 Frankford Road, Philadelphia, Pa.

SITUATION WANTED.—By an energetic young man, who resigned his last place in one of the leading English nurseries; wages not so much an object as the right kind of experience. Address: BOOL, Ithaca, N. Y.

SITUATION WANTED.—By a practical florist German, no children, on a private place, 15 years experience in this country and Europe; good references as to ability and character. Address: CARL GEBHARDT, 150 W 2nd St., Chicago, Ill.

SITUATION WANTED.—By a young married German, no children, on a private place, 15 years experience in this country and Europe; good references as to ability and character. Address: CARL GEBHARDT, 150 W 2nd St., Chicago, Ill.

SITUATION WANTED.—As manager, have been 10 years an establishment in the horticultural line where are some of the finest roses, etc. ever grown in Illinois. Very highest testimonials. Reason of leaving solely for better position. Address: A. M. care American Florist, Chicago.

SITUATION WANTED.—As foreman, can turn to any kind of work, accustomed to steam and hot water, reticulate fine and coarse (e-timons) for propagating and knowledge of orchids, rose growing etc., also general running of a large business, 10 years experience. Address: A. C. care American Florist.

SITUATION WANTED.—As propagator, etc., very quick, accustomed to handle all kinds of one of the largest places in the east, rapid at potting, mailing, etc., 20 years experience, very highest references; been employed in the largest places in Austria, England and France. Desiring to change solely to better circumstances. Address: R. S. care J. C. Vaughan, box 68, Chicago.

SITUATION WANTED.—By a practical gardener German, as head or foreman; competent in all branches; private place preferred. Has been 10 years generally, cut flowers, fruit, vegetables, also tropical plants, laying out choice flower and vegetable gardens, 20 years experience, age 36, married, good sober steady German. Address: G. M. care American Florist, Chicago.

WANTED.—A good florist and gardener. Address: WILSON & Co., Shreveport, La.

WANTED.—Wholesale price lists plants, bulb etc. GRIZZELLE & Pont, Victoria, B. C.

WANTED.—Gardener for fire steam boiler, also good greenhouse and garden. HENRY DREER, 51 Benie street, Memphis, Tenn.

WANTED.—A competent rose bud grower and manager of greenhouses; good salary for a good man. Address: L. Letter carrier, Louisville, Ky.

WANTED.—A single young man for general greenhouse work, also a horticulturist, steady plants and cut flowers, give references, state salary required. Address: ALBERT R. BALE, Kansas City, Mo.

WANTED.—An active, experienced assistant in greenhouse and flower garden and good rose grower. May be put in charge of cement. Wages \$25.00 and board. References required. No drinking man need apply. Address: W. H. CASSELL, Box 85, Canton, Miss.

WANTED.—Nursery foreman, an active, energetic man, American or German, married, temperate; thoroughly acquainted with all branches of the nursery business, a competent proprietor of ornamental stock, and a good manager of men. Apply with reference to: THE W. H. MOON CO., Morrsville, Bucks Co., Pa.

WANTED.—PARTNER.—In the nursery and florist business, a practical man with not less capital than \$1000. To such a person a position is now offered which will afford him a handsome return. Location can not be beat in America; splendid grounds, well cultivated, and a large trade directly in the city of London Ont. and on the road to the great centers of the Empire. Address: GEO. BUCHETT, St. James Park Nurseries, London, Ont.

FOR SALE.—600 feet of 4 inch pipe, one expansion tank, 8 branch tees and 8 elbows. Cheap for lots. H. C. CUNNINGHAM, Delaware, Ohio.

FOR SALE.—Two handsome solid cherry florists' and 8 ft. high, 11 ft. high, 8 ft. long, 8 ft. wide, and 8 ft. high, 11 ft. long, 8 ft. wide, cut \$25.00 and \$40.00 will sell for \$25.00 each, also two large mirrors, cost \$30.00 will sell for \$25.00 each. Address: FOREST GLEN FLORAL CO., 307 Lake St., Chicago.

FOR SALE.—A florist establishment, one greenhouse (5x15), and two 5x10 feet each, heated by hot water (Weathered); 5 acres of good land, some wood and pasture, plenty fruit, dwelling house, barn and other buildings, all well and in good order. All buildings new and in good order. One hour from New York City and one mile from depot. Price, \$4,000 or will sell the greenhouse proper for \$2,000. Address: F. O. Box 105, Ramsey, N. J.

WANTED.—300 CAMELIAS. Double White, Double Pink, and Double Variegated. Mailing size. Address with price. John A. Salzer Seed Co., La Crosse, Wis.

A BARGAIN. A WELL ESTABLISHED Florist Business for sale. Four houses, well stocked and equipped. For good reason, even at a sacrifice. Growing Ohio city of 25,000 inhabitants. Large trade with surrounding towns. Address: OPPORTUNITY, care Am. Florist.

FOR SALE. Good Stock Healthy VIOLETS MARIE LOUISE and SWANLEY WHITE, Dble.

The above clump, 100 plants, \$1.00 per 100. Fine plants transplanted. 1.00 per 100. 12% off on 500 plant orders. Cash must accompany orders from unknown parties.

M. TRITSCHLER, NASHVILLE, TENN.

TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best of the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

GLADIOLUS BULBS.

Prevailing Colors, Pink and White.

Over 100 named varieties, and a number of choice seedlings, all raised in this collection, has never been culled, and it has received a number of first premiums in each of the last three years when exhibited. To avoid retailing these bulbs, I offer them this fall at \$10.00 per 100 for first size, second size \$8.00. A quantity of small bulbs and bulbets at a bargain.

M. CRAWFORD, Cuyahoga Falls, Ohio.

200,000 PEAR SEEDLINGS, 2 years old, raised in South Germany, for sale, at \$10 per 1000. Immediate order secures the bargain. The stock is the best ever seen.

Martin Ernst, VINELAND, N. J.

American Grown Gladioli.

Mr. W. W. Watson, assistant curator of the Royal Gardens at Kew, England, says in a letter to *Garden and Forest*, September 10, 1890:

"A bed of seedling gladioli, comprising some half dozen kinds now flowering finely at Kew, is attracting much attention because of the extraordinary size of the plants, and the size and rich colors of the flowers. They were obtained from Messrs Hallock & Sons, Queens, N. Y. Some of the spikes are fully six feet high and well furnished with flowers, all of them larger than any gladioli I have seen, whilst the colors are brilliant as well as variable. They are superior in size of flower and robustness of plant to the best productions of European growers."

Geo. Jackman & Son

Beg to offer a large and well grown

Stock of the following:

- ROSES**—In choice and exhibition varieties.
RHODODENDRONS—Of the best named sorts, and Hybrid Seedlings well set with buds.
AZALEAS—Good named sorts, also Mollis and Ponticum set with buds.
CONIFERS—In large collection.
SHRUBS—Ornamental and Flowering.
FOREST TREES—Of sorts, all grown by thousands.
CLIMBERS—In variety, including their celebrated Climatic.
STOCKS—Fruit and Manetti, fine.

Catalogues free on application.

TERMS—Cash with order, or satisfactory trade reference from unknown correspondents.

**WOKING NURSERY,
WOKING, ENGLAND.**

**ZIRNGIEBEL'S
NEW GIANT MARKET AND FANCY
PANSIES**

Have been exhibited everywhere and admitted to be the finest strains at the present time.

"Huge jewels of velvet and gold."—Boston Transcript, May 10th, 1890.

Trade packages of 1,500 and 500 seeds respectively, at \$1.00 each. Full printed directions for the proper cultivation of these pansies with each package of seeds.

IN ANSWER TO MANY INQUIRIES:

We have no seed of Giant Fancy Pansies to sell by weight, being too scarce and high. Wherever our stock every season, from seed obtained direct from Messrs. Bugnot and Cassier, at the rate of thirty and twenty dollars per ounce, respectively (with a limited supply), as we consider their seed to be the cheapest, quality considered. We do not handle any other.

**DENYS ZIRNGIEBEL,
NEEDHAM, MASS.**

Mention American Florist.

**NEW SEEDLING CHRYSANTHEMUM
"ORANGE BEAUTY"**

This novelty has been in bloom with us last year from September until June and is now in full bloom. We can supply fine plants in 2 1/2 inch pots at \$1.50 per 10 plants, or \$10 per 100. Also a large stock of Grand Duke Jasmine, 2 1/2 inch pots, \$3.00, and 3 1/2 inch pots, \$7.50 per 100. Jasmine multiflorum, 2 1/2 inch pots, \$2.50 per 100. Bouvardia Boeckl and Cleveland, 2 1/2 inch pots, \$3.00, and 3 1/2 inch pots, \$4.50 per 100. Allapanda Hendersonii, from 2 1/2 inch pots, at \$7.00 per 100. From 3 1/2 inch pots, strong plants, \$1.00 per dozen, or \$20.00 per 100.

Terms, cash with order or satisfactory reference.

**FRANCIS MORAT'S SONS & CO.,
LOUISVILLE, KY.**

HYDRANGEA GRANDIFLORA.

We ask the attention of Dealers and the Trade to our Large Stock of **HYDRANGEA GRANDIFLORA**, nice, well-grown plants at very low prices, viz:

HYDRANGEA GRANDIFLORA, 2 year, 2 to 2 1/2 feet, strong. Price, \$7.00 per hundred; \$60.00 per thousand.

HYDRANGEA GRANDIFLORA, 2 year, second size, 18 to 24-in., good. Price, \$6.00 per hundred; \$50.00 per thousand.

Samples on application. Correspondence solicited.

Address **THE DINGEE & CONARD CO., WEST GROVE, PA.**

CHRISTMAS ROSES.

If you require fine clumps of home grown Christmas Roses, the large white flowering variety, full of flower buds, either for planting or forcing, order at once.

PRICES FROM \$7.25 TO \$24.00 PER HUNDRED.

—THE LARGEST STOCK IN THE WORLD TO SELECT FROM.—

Bulb catalogue and special prices free on application.

Cash with order or good references required from unknown correspondents.

**HERMAN BUDDENBORG,
WHOLESALE BULB GROWER,**

HILLEGOM, = HOLLAND.

SEASONABLE

STOCK.

**J. C. VAUGHAN,
CHICAGO.**

**AZALEAS, fine stuff.
Chinese Narcissus.
BOUQUET GREEN.**

(Order Holly and Green Now.)

**LILIES, Full Supply.
(AURATUM, NOVEMBER 1st.)**

**Gladiolus, Pæonies,
and other stuff of this class ready.**

**Special Glass Vases for Chinese
Narcissus, doz. \$2.25.**

PANSIES.

A FEW POINTS TO CONSIDER.

QUALITY

the important feature in pansies is well taken care of in my strain; in fact so well that many of my customers say there are no better ones. Those who bought a few hundred on trial last season are placing their orders now for a fully supply.

THE PLANTS

are nice stocky seedlings that can be mailed or expressed safely long distances and at a moderate cost. Samples will be mailed for 10 cts.

QUANTITY

I can furnish them in any number, 100 or 10,000, all from the same beds and same seed. A trial order is respectfully solicited.

PRICE

Free by mail 100, 75 cts.; 500, \$3; by express 500, \$2 50; 1000, \$5; 2500 and upward 10 per cent discount.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

MAMMOTH PANSIES

From finest strains of the most celebrated growers of Europe and America.

GIANT TRIMARDEAU, LORD BEACONSFIELD,

EMPEROR WILLIAM and others mixed.

Price, \$3.00 per 1000. Very fine mixed, \$5.00 per 1000.

Address

**J. G. Burrow,
FISHKILL, N. Y.**

HYDRANGEA HORTENSIS.

in 5 inch pots. Have been planted out during summer and potted in September.

Per hundred, \$12.00.

Have also several hundred Carnations, field-grown, Sunrise, Hinz's White and Century, at \$6.00 per 100.

**BRAUER & RICHTER,
McCONNELLSVILLE, OHIO.**

Pansy Seed

of the best quality, in the 24 best exhibition varieties, offered at very mod. rate prices.

Henry Mette,

Seed Grower and Merchant,

QUEDLINBURG, GERMANY.

PANSIES ONLY ONLY ONLY

The grandest Collection ever offered, including all the Latest Novelties. Our seeds are warranted to be fresh, pure, and strictly first-class in every respect. Send for our Circular and Price List to the Trade.

ALBERT BENZ, DOUGLASS, N. Y.

ROSES

FOR IMMEDIATE PLANTING

Duchess of Albany.....	3 each, \$12 00
Mme. Hoste.....	7 00
La France.....	5 00
Goutiers.....	4 00
Perles.....	4 00
Niphotos.....	4 00
Mermets.....	4 00
Brides.....	4 00
Bon Silene.....	4 00
Gen'l Jack, 2-in. \$40 per 1000; 3-in. \$8.00 per 100.	
H. Perpetual, 40 var., 2-in. \$50.00 per 1000.	
Fine stock Heliotrope, 2½-in. \$3 per 100.	
Double Fringed Petunias, 12 vars. 2½-in. \$4.00 per 100.	
Verbenas, 20 vars. new seedlings, Mammoth strain, per 100 \$5; per 1000 \$25.	
Rooted Cuttings of same, 100 \$1; 1000 \$9.	
Primroses, double, per 100 \$12.00, single, per 100 \$5.00.	

Obconica, per 100 \$5.00.
 Ceraniums—latest Novelties.
 Lantana borbonica, 5 in. \$4.00, 4-in. \$3.00 per dozen.
 Miscellaneous stock of all kinds.
 SEND FOR LIST.

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

FIVE NEW AMERICAN ROSES

Probably the most interesting Novelties of the coming season, and those that will attract the widest attention of the Trade on both sides of the water, are our

NEW AMERICAN SEEDLING ROSES.

HENRY M. STANLEY,
 MRS. JESSIE FREMONT,
 MAUD LITTLE,
 PEARL RIVERS,
 GOLDEN GATE.

Five New Teas of Sterling Merit, originated, grown, and tested in this country, and sent out on their merits at reasonable rates. Orders can be booked now, and will be filled in rotation as received—April 1st next. Full descriptions ready Jan. 1st. Prices, \$1 each; set of 5 for \$5; two of each, 10 for \$9; five of each, 25, for \$20.

ADDRESS THE DINGEE & CONARD CO.,

Rose Growers, West Grove, Pa.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general green-house stock. Trade list mailed on application.

JACOB SCHULZ,
 Louisville, Ky.

IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
 JAMAICA PLAIN, (Boston), MASS.

10,000 General Jacq. Rose Plants, one and two year old.

Extra large two year old, \$20.00 per 100, fine one year old, 3 ft. and up, \$15. " fine one year old, 2 to 3 feet, \$10.

JORDAN FLORAL CO.,

706 Olive Street, ST. LOUIS, MO.

CARNATIONS.

Field grown plants, ready in September and October. Also

VIOLETS.

Large clumps for forcing of MARIE LOUISE and SWANLEY WHITE, Send for circular.

W. R. SHELMIER, Avondale, Pa.

California's New Rose "THE RAINBOW."

READY FOR DISTRIBUTION.

During the recent Rose Show of the California State Floral Society "THE RAINBOW" received more admiration than any of the thousands of flowers exhibited, and the highest comments of the press.

Stock in the best possible condition at the following prices: 1 Plant, \$1. 12 Plants, \$10. 100 Plants, \$75.

TERMS CASH.—Remittances may be made by Draft, Postoffice Orders, or Wells, Fargo & Co. Money Orders.

Description and Colored Plate of "THE RAINBOW" will be mailed on application

JOHN H. SIEVERS, 25 Post Street, SAN FRANCISCO, CAL.

FIELD GROWN CARNATIONS.

Plants grown specially for Winter Blooming, strong and healthy, medium size.

CHRISTMAS and DAWN, at \$15 per 100.
 GOLDEN GATE, a limited number of strong, field grown plants of this splendid pure yellow, at 25 cents each.
 J. R. FREEMAN, a new cardinal colored; and
 CANTY, a new rose pink colored, fine plants at \$25 per 100.
 W. F. FREER, the latest and finest pink colored Carnation yet produced; a few splendid stock plants at 40 cents each.

SURPLUS STOCK. Will sell new and old varieties at \$8 per 100; can make up a 100 mostly new and seedling roses of merit for \$10.

EASTER LILIES. Have some 200 nice large bulbs left which I will sell for \$10, are 5 to 7-inch bulbs.

OXALIS LUTEA. The finest large winter flowering Oxalis! Will balance on hand for \$1 per 100; by mail postpaid.

CHAS. T. STARR, AVONDALE, Chester Co., PA.

ROSES

FOR WINTER BLOOMING.

10,000 healthy Roses from 4-inch pots, consisting of

Mermets, Brides, Perles, Cousins,
 Souv. de Wootton, Papa Contier,
 La France and Niphotos, at \$10.00 per 100.

Bon Silene and Safrano, \$8 per 100.

Also 10,000 SUELLA from 2½-in. pots, at \$4.00 per 100.

JAMES HORAN, FISHKILL, BRIDGEPORT, CONN.

ROSES

Per 100 Per 1000

Perles, Mermets, Cook, Souv. d'un Ami,
 Brides, Jaeps, and Bon Silene, strong plants, 5-in. pots..... \$7 00 \$70 00
 Souv. de Wootton, 5-in. pots..... 12 00
 Hybrid Perpetuals, open ground, \$5 & 10.00
 Teas, from open ground..... \$4 & 6 00
 Impatiens Veitchii, strong plants..... 8 00
 Rex Begonias, fine varieties, 5-in. pots..... 12 00

CARNATIONS.

Hinze's White, Fred Johnson, Orient, Century, Aletiere, Florence, strong field grown plants:
 1st size..... 7 00 70 00
 2nd size..... 6 00 60 00
 3rd size..... 5 00 50 00
 VIOLETS, Swanley White, strong clumps..... 6 00
 Marie Louise, 1st size..... 7 00 70 00
 2nd size..... 5 00 50 00
 Our Carnations and Violets are strong, field grown plants, and perfectly healthy.

WOOD BROTHERS,

(Successors to L. C. WOOD & BRO.,) FISHKILL, N. Y.

CARNATIONS AND PANSIES.

Snow Bird, the finest white Carnation out, now for sale with other new and old varieties.

50,000 PANSIES of the Jennings strain, extra fine plants, 15.00 per 1000. Send for price list.

PANSY SEED, \$1.00 per packet. Address

E. B. JENNINGS, box 70, Southport, Conn.

CARNATION, PANSY and VIOLET GROWER.



Florists find great profit in the JAPAN SNOWBALL. We have mainly introduced it, and have the largest stock in the world. Flowering plants for forcing, at low figures by the 100. We have many things suited to money making florists.

Illustrated Catalogue 6 cents.

THOMAS MEEHAN & SON,

Germantown, Philadelphia.

Marie Louise Violets, strong clumps, \$5.00.

Amarylth Johnsonii \$2.75 per doz.

Calla, strong outdoor grown, per 100 \$7.00.

J. J. LAMPERT, Xenia, Ohio.

CARNATIONS

FIELD GROWN. LARGE, HEALTHY PLANTS.

	Per 100	Per 1000
De Graw, white.....	\$5 00	
Hinze's White.....	6 00	
Portia, John McCullough, See Window, Mrs. Gardfield and Pres. Gardfield.....	8 00	
Violets M. L. use and Swanley White.....	4 00	
Abolitions in variety.....	4 00	
Hibiscus in variety.....	4 00	
Primula Obconica.....	4 00	
" Florida.....	4 00	
Chionodoxa.....	4 00	
Hegonia Rex in variety.....	\$5.00 and 8.00	
Begonia Lucy Closson.....	Per doz.	
Countess Louise Erdody.....	2 00	
" Diana, Scotch.....	5 00	
Primula Obconica Seed, pkt. 100 seeds, 75c.		

I. N. KRAMER & SON,

MARION, IOWA.

CARNATIONS.

Strong 4-in. Strong 5-in.

	Per 100	Per 1000
Portia.....	\$ 6 00	\$ 9 00
Hinze's White.....	6 00	9 00
Chester Pride.....	6 00	9 00
Wm. Swaney.....	6 00	9 00
Century.....	7 00	10 00
Christmas.....	10 00	15 00
Primula Obconica, strong, 2½ inch, 4 00		
Ceraniums, choice varieties, 3-inch, 3 50		
Asparagus Tenissimus, 2½-inch, 4 00		
Begonias, large stock, all sizes and vars.		

Address N. S. GRIFFITH,
 JACKSON CO. INDEPENDENCE, MO.
 (Independence is well located for shipping, being 8 miles east of Kansas City.)

CARNATIONS AND VIOLETS.

HINZE'S WHITE, PORTIA, CENTURY, ALEGATIERE, SILVER LAKE and others.

First Size..... \$5.00 per 100.

Second size..... 5.00 per 100.

VIOLETS M. LOUISE.

First size..... \$5.00 per 100.

Second size..... 5.00 per 100.

Ampelopsis Veitchii, strong 2½-inch pots, \$5.00 per 100; \$40.00 per 1000.

JACK ROSES, 3½-inch pots, \$5.00 per 100; \$70.00 per 1000.

Address J. G. BURROW,

FISHKILL, N. Y.

For Sale.

4000 extra fine, healthy MARIE LOUISE VIOLETS.

Also 1000 HINZE'S WHITE CARNATIONS.

Wm. J. Stewart,

67 Bromfield Street, Boston, Mass.

THE AMERICAN FLORIST

Subscription \$1.00 a year. To Europe, \$1.50.

Advertisements, 10 Cents a Line, Agate;
 Inch, \$1.50; Column, \$14.00.
 Cash with Order.

No Special Position Guaranteed,
 Discounts, 3 months, 5 per cent; 6 months, 10 per
 cent; 12 months, 20 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN
 FLORIST is for Florists, Seedsmen, and dealers in
 matters pertaining to those lines ONLY. Please to
 remember it.

Orders for less than one-half inch space not accepted.

Advertisements for Nov. 1 issue must
 REACH US by noon, October 25. Address

THE AMERICAN FLORIST CO., Chicago.

COST OF PRODUCTION.

Mr. Chitty's comments regarding the cost of growing geraniums in his greenhouses again brings to mind the great importance, the absolute necessity, of every grower being able to determine what his plants and flowers cost him to produce. The time for groping in the dark in this matter has passed, and those who continue to depend upon guesswork in deciding what stock is profitable and what is not, will soon be drifting upon financial rocks if they have not already unknowingly done so. As competition sharpens prices are reduced. Have you already touched cost, are you merely close to the danger line or have you plunged below? Are you making a profit on all the stuff you market or are you carrying a loss on one line of stuff by a liberal profit on another line? Where are you? If you do not know just where you stand, if you can not positively say what profit or loss you are making in each department of your business then you are drifting and sooner or later you will surely drift against the rocks.

In our department of roses in this issue will be found several records of blooms cut from each plant of certain varieties, during each month of the season, by different growers, which are worthy of a careful study. While these figures can hardly be accepted as conclusive they are full of suggestions, and could similar records be obtained from a large number of growers a digest of the whole would be of inestimable value.

Will you not for your own benefit keep a record of blooms cut from each variety of roses you grow this season, and send a copy to us for use in compiling a general average for the benefit of the whole trade?

GERANIUMS.

Mr. Fred Kanst, Superintendent of the South Park System, Chicago, informs us that since the publication of his list of favorite bedding geraniums in the FLORIST has been flooded with letters from all parts of the country asking for cuttings of the varieties, some enclosing money. He says that he can not sell anything from the parks and has no time to pack and ship cuttings to applicants no matter how much he would like to accommodate them. Further that the letters are too numerous to answer. We therefore publish this explanation as an answer to all his correspondents on the geranium matter.

WE HAVE received from T. F. Keenan, Chicago, samples of a new style of letter for inscriptions on designs, which seem admirably adapted for the purpose. They are made of stiff wire wound

with chenille, the ends of the wire being bent over and sharpened for the purpose of attaching to the design.

WE HAVE received some very good blooms of tuberosus begonias from Mr. A. C. Parfrey, Richland Center, Wis. They are from Laing's seed and the flowers are a fair representation of the strain, but not equal to others we have seen. It is pleasing to note that the interest in this remarkable class of begonias is becoming more and more general.

MESSRS. F. MORAT'S Sons & Co., Louisville, Ky., send us specimen blooms of a seedling dahlia raised by them two years ago and which they have named President Harrison. The flowers are of large size, full double, nearly four inches in diameter, light lemon yellow, lightly blotched with carmine. They are very bright and showy.

A BLOSSOM of the tuberose which measures 2 1/2 inches across has been sent us by Albert Fuchs, a Chicago florist. It is perfect in form, full double, and presents no indications of being two flowers grown together.

The advertisement of the Whildin Pottery Co., which appeared in our October 1st issue was intended for the issue of September 15, but reached us a little too late for that number, hence it was necessarily held over till Oct. 1.

Catalogues Received.

Thomas S. Ware, Tottenham, London, England, bulbs; same, plants; G. J. Alberts & Co., Boskoop, Holland, azaleas, clematis, conifer, etc.; John Gardiner & Co., Philadelphia, bulbs; J. B. Lamesch, Dornmieding, Luxemburg, roses; Hillebrand & Breidenich, Pallanza, Italy, plants; Thomas W. Weathered & Sons, New York, greenhouse building and heating; F. Sander & Co., St. Albans, England, orchids; A. M. & J. B. Murdoch, Pittsburgh Pa., bulbs, plants and nursery stock; H. Cannell & Sons, Swanley, Kent, England, bulbs, plants and seeds; J. A. Simmers, Toronto, Canada, bulbs; C. M. Hildesheim, Baltimore, Md., bulbs, plants, seeds and supplies.

Changes in the Tariff.

Following are the changes in the tariff affecting plants, nursery stock and bulbs:

"Plants, trees, shrubs and vines of all kinds commonly known as nursery stock, not specially provided for," must now pay duty at the rate of 20 per cent ad valorem. These were formerly admitted free.

On the free list we find "Orchids, lily of the valley, azaleas, palms, and other plants used for forcing under glass for cut flowers or decorative purposes."

In another paragraph in the free list appears the line "Bulbs and bulbous roots, not edible, not specially provided for."

The new tariff went into effect Oct. 6.

Housing Violets.

In reply to Subscriber's query as to whether all the runners should be taken off from violets when they are housed for winter bloom, the runners having flower buds, Mr. Geo. Klehm, of Arlington Heights, Ill., states his practice as follows:

"All slim runners are picked off, and if plants grew very large then there is enough of the large runners picked off so as not to crowd the plants any on the bench. If the plants are small we leave all strong runners on as they bring the best violets in the month of February."



Gardiner's Superb Strains of CHINESE PRIMULAS

PRIMULA SINENSIS FIMBRIATA, choicest mixed ex. ex., 100 seeds \$2.50; 500 seeds \$7.00; 1000 seeds \$12.00.
 PRIMULA SINENSIS FIMBRIATA FILICIFOLIA, choicest mixed (fern leaved), ex. ex., 100 seeds 2.00; 500 seeds \$1.00; 1000 seeds \$2.00.
 PRIMULA SINENSIS FIMBRIATA, double, scarlet, ex. ex., 100 seeds 50c.
 PRIMULA SINENSIS FIMBRIATA, double, white, ex. ex., 100 seeds \$1.00.
 PRIMROSE, Yellow, English, pkt. 25 cts.
 New English Hybrids, pkt. 25 cts.
 POLYANTHUS, Cloth of Gold, pkt. 25 cts.
 Yellow, pkt. 25 cts.

JOHN GARDINER & CO.

Seed Growers, Importers and Dealers.

Philadelphia, Pa., U. S. A.

3,000

GEDRUS DEODORA.

In sizes of from 18 to 48 inches.

20,000 BIOTA AUREA and SEMPER AUREA.

20,000 RARE CONIFERAE in 100 varieties.

PALMS and open ground ROSES.

This stock is in most thrifty condition.

N. B.—The bulk of the stock of Coniferae is pot grown.

Orders booked now for November delivery. Catalogues on application.

Address P. J. BERCKMANS,
 Fruitland Nurseries, AUGUSTA, GA.

Now Ready, for Cash.

Begonia Bruanti alba, best white,	Per 100
winter bloomers, 2 1/2-inch,	\$ 6.00
same, 3 inch,	- 10.00
Begonia Metallica, 2 1/2-inch,	- 6.00
" " 3 1/2-inch,	- 12.00
" Semperflores rosea, 2 1/2-in.	6.00
" " 4-in.	12.00
Abutilon Eclipse, 2 1/2-inch,	- 5.00
Manettia bicolor, 2 1/2-inch,	- 7.00
" " 3-inch,	- 14.00
Agapanthus, 3 1/2 and 4-inch,	- 8.00

Lane's thrifty stock in fine shape, ready to ship.

Lane's Mountain View Greenhouses,
 RUTLAND, VT.

ENGLISH RHODODENDRONS.

Every variety and color, £4 to £10 per hundred.

CLEMATIS.
 The choicest and best kinds, 65s to 75s per hundred.

F. STREET, Nurseryman,
 Heatherside Nurseries, CAMBERLEY, ENGLAND.

CYCLAMEN.

Unusually fine plants. Selections from the private stock of a noted London grower.

GIGANTEUMS and compact, large flowering PERISCUMS.

3 1/2-inch	.....	\$10.00 per 100
2-inch	.....	5.00
2 1/2-inch	.....	5.00

CARNATIONS, field grown, HINZE'S, SNOWDON, G. WILDER, CRIMSON KING, PORTIA, CRAIG, HENRIK ANDERSEN, etc.
 MRS. MANGOLD, \$5.00 per 100.

J. LAURENCE, Harrisburg, Pa.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,

And the Choicest ROSES for the
fall and winter season.

W. S. ALLEN, WHOLESALE DEALER IN CUT FLOWERS,

38 EAST 23rd STREET, NEW YORK.

ESTABLISHED 1877.

Price List sent upon application.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS,

No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

HAMMOND & HUNTER, WHOLESALE DEALERS IN

CUT FLOWERS,

51 West 30th St., NEW YORK.

WELCH BROS., WHOLESALE FLORISTS,

165 Tremont Street, BOSTON, MASS.
We make a specialty of shipping choice Roses and
other flowers, carefully packed, to all points in
Western and Middle States.
Return Telegram is sent immediately when it
is impossible to fill your order.

W. A. JURGENS, WHOLESALE FLORIST

27 Union Square, NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST

56 WEST 30TH STREET,

NEW YORK.

N. F. MCCARTHY & CO. WHOLESALE FLORISTS

AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.Also entrance from Hamilton Place
through Music Hall.We keep a large supply of Fancies and Carnations
always on hand. Return telegrams sent
immediately when unable to fill orders.AUCTION SALES OF PLANTS SPRING AND FALL
Mention American Florist.

DOUBLE WHITE PRIMULAS.

From 3-inch pots, well rooted. \$10 and
\$15 per 100. Cash with order.S. TAPLIN,
Fort St. West, DETROIT, MICH.

Wholesale Markets.

Cut Flowers.

BOSTON, Oct. 9.	
Roses, Tea.....	\$1.00 @ \$1.50
" Mermetts, Brides.....	3.00 @ 3.50
" Niphetos, Peries.....	3.00 @ 4.00
" Gontiers.....	1.00 @ 2.00
Carnations.....	1.00 @ 1.50
Asiatics.....	1.00 @ 1.50
Smilax.....	2.00 @ 2.50
Valley.....	1.00 @ 1.50
Asparagus plumosus.....	50.00
PHILADELPHIA, Oct. 9.	
Roses, Beauties.....	\$8.00 @ 15.00
" Peries, Niphetos.....	5.00 @ 6.00
" Albany, La France.....	5.00 @ 6.00
" Mermetts, Brides.....	4.00 @ 5.00
" Pierre Guillot.....	4.00 @ 5.00
" Gontier.....	3.00 @ 4.00
" Woodton.....	3.00 @ 4.00
Carnations, long.....	1.00 @ 1.50
Smilax.....	12.00 @ 20.00
Adiantums.....	1.00 @ 1.50
Valley.....	3.00 @ 4.00
Violets, single.....	20.00

NEW YORK, Oct. 9.	
Roses, Bon Silence.....	\$ 50
" Gontiers.....	1.00 @ 1.50
" Peries, Niphetos.....	1.50 @ 2.00
" Souys.....	1.50 @ 2.00
" Watteville's, Gains.....	2.00 @ 3.00
" Mermetts, Brides.....	2.00 @ 4.00
" La France, Albany.....	3.00 @ 4.00
" Bennetts.....	2.00 @ 3.00
" Beauties.....	6.00 @ 25.00
Valley.....	6.00 @ 8.00
Smilax.....	10.00 @ 15.00
Carnations, long.....	1.00 @ 1.50
Adiantums.....	1.25 @ 1.50
Asparagus.....	50.00
Mignonette.....	2.00 @ 3.00
Violets.....	20.00 @ 30.00

CHICAGO, Oct. 11.	
Roses, Peries, Niphetos.....	\$3.00 @ \$5.00
" Gontiers.....	2.00 @ 4.00
" Bon Silence.....	1.00 @ 2.00
" Mermetts, La France.....	4.00 @ 6.00
" Brides.....	1.00 @ 2.00
" Am. Beauties.....	10.00 @ 15.00
" Bennetts, Dukes.....	4.00 @ 5.00
" Albany.....	3.00 @ 7.00
Carnations, short.....	75.00 @ 100.00
" long.....	1.00 @ 1.50
Smilax.....	15.00 @ 30.00
Tuberose.....	1.00 @ 1.50
Common ferns.....	25.00 @ 30.00
Violets.....	75.00 @ 100.00
Adiantum.....	1.00 @ 1.25
Mignonette.....	1.00

WM. J. STEWART, Cut Flowers & Florists' Supplies

WHOLESALE

67 BROMFIELD ST., BOSTON, MASS.

Mention American Florist.

EDWARD C. HORAN, 34 W. 29th St., NEW YORK.

Having removed to more spacious quarters
(next door) with increased resources and facilities
I am now prepared to furnish at short notice and
in any quantity, selected Roses of every variety,
also all other flowers in market.Roses to be shipped are especially selected
and packed under personal supervision.

SPECIALTIES:

American Beauty, La France, The Bride,
Mermet, Mme. Hoste, Duchess of Albany.

—WRITE FOR PRICE LIST—

Return telegrams sent when orders or part of
them cannot be filled.

Mention American Florist.

GEO. MULLEN, WHOLESALE FLORIST.

Florists' Supplies Always in Stock.
17 CLEGGAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.Orders by Mail, Telegraph, Telephone or Express
promptly filled.
Mention American Florist.

E. H. HUNT, 79 LAKE STREET, CHICAGO, Successor to VAUGHAN'S CUT FLOWER DEPT.

Our stock is cut with special reference to ship-
ping trade, which comprises the greater part of
our business. We therefore claim that we are
better prepared to attend to the wants of FLOWER
BUYERS, outside of Chicago, than any house in
the West.OPEN DAILY: Week days till 9 P. M.
Sundays till 2 P. M.

KENNICOTT BROS., WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

We always have choice, Fresh Cut Flowers in
season. The best packers in the trade. Orders
promptly shipped. Store open until 9 a. m.
Sundays until 2 p. m.WIRE WORK A SPECIALTY.
Extra designs made to order. Write for price list.
Consignments Solicited. Telephone 495.

C. H. FISK, WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES.

116 Dearborn Street, CHICAGO.

OPEN NIGHTS AND SUNDAYS.

WIRE DESIGNS IN STOCK FRESE & GRENZ, (Successors to O. W. FRESE.) Wholesale Dealers in CUT FLOWERS, And Florists' Supplies.

89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

LaRoche & Stahl, Florists & Commission Merchants

—OF—

CUT FLOWERS.
1237 Chestnut Street, PHILADELPHIA.
Consignments Solicited. Special attention paid to
shipping. Mention American Florist.

CHAS. E. PENNOCK, WHOLESALE FLORIST

38 So. 16th Street, Philadelphia, Pa.

JOHN M. HUDSON, WHOLESALE Commission Dealer in Cut Flowers,

1225 Market St., ST. LOUIS, MO.

Quick sales and prompt returns guaran-
teed. Consignments solicited.

CUT FLOWERS

The choicest Cut Flowers at lowest market rates
shipped C. O. D. Telephone connection. Use A. F.
Code when ordering by Telegraph. For prices, etc.,
Address,
J. L. DILLON, BLOOMSBURG, PA.

DIRECTORY.

Every Florist, Nurseryman and

Seedsmen should have one.

AMERICAN FLORIST CO., Chicago.

On Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FORTNA, H. Boston, secretary and treasurer. The ninth annual meeting at Cincinnati June, 1894.

Points on Advertising.

ED. AM. FLORIST.—It is nearly seventeen years since the writer first began to advertise, and in all that time the oneness that has been most strongly learned is the sense of how little we really know about it; therefore it was not with any degree of satisfaction we read your request to give, through the AMERICAN FLORIST, some facts and figures about advertising. As one writer has remarked, "Advertising is by no means an exact science," in fact both the value of given mediums and of methods of presenting the advertisements are continually changing and a plan of advertising that is productive of good results one year may the next year utterly fail to bring satisfactory returns.

The well-known professional writer of advertisements, Mr. Powers, of New York, strongly maintains that the same advertisement should not appear twice; that as an editor would not repeat an editorial, so an advertiser should not reprint an advertisement—confessing thereby that he did not expect it to be read upon its first appearance. It must be admitted that Mr. Powers has been eminently successful in this line, while he is also doubtless to be credited with originating the very popular Wamamaker style of advertising in the daily papers. But if, instead of having to present to the public dry goods, furniture, etc., in their ever changing styles and prices, through the columns of the daily press, he had been confined for the season to the goods offered in a seed catalogue—subject to no change in price or variety—and had to reach a constituency scattered throughout the country, he doubtless would have arrived at an entirely different conclusion. The advertiser of dry goods, etc., has a great advantage from the fact that every reader of the papers is a possible customer, and particularly the ladies of the household, being naturally interested in the articles, can eventually be led to turn daily to the skillful advertiser's announcements for the latest news of fashions, or of special offerings.

Should the seedsman, however, pursue the same plan, with its attendant expenses, he would soon be bankrupted, for of most of the mediums in which he advertises there are comparatively few of the subscribers who have occasion to use his goods. The first point, therefore, for the florist or seedsman to determine in considering the value of a given paper as an advertising medium is not merely the extent of its circulation but the *character*, and out of the total number of subscribers the probable proportion who are really users of his goods. Then let him decide the amount of money he can profitably pay to present his card to this constituency, and it will readily be seen that he can not afford to spend nearly so large a sum as the advertiser whose wares appeal to the wants of the general public.

Relative to the character of an advertising medium there is another point that the florist or seedsman who advertises for mail business must be careful to consider: are the readers of this paper in the habit of sending orders for goods away from home?

The manufacturer of special brands of

patent medicines and the commission seedsman—all of whose goods can be had at the village store—can well afford to advertise in local county papers and "patent outsiders," but it is our opinion that money thus spent by those seeking returns through the mails is almost entirely thrown away. In every community the more progressive and intelligent people, in addition to their home county paper, will be found to take some secular or religious weekly, agricultural journal or magazine, and the very fact that they have subscribed through the mails for such papers shows that they can be induced to write for anything in which their interest may be aroused. Again in another point must the character of circulation be considered. A discriminating advertiser of seeds in selecting religious papers would naturally avoid the Hebrew journals because the Jews are rarely farmers or gardeners; neither would he use the largely circulated (and consequently high priced) Catholic journals, the circulation of which is mostly drawn from large cities and manufacturing districts. For the same reason he would not waste his money upon the largely circulating weekly story papers, the price being altogether too high for the small percentage of rural readers that such papers reach.

After making a judicious selection of the mediums in which he will invest his money the advertiser should fully realize that it is an investment and not a speculation. In 99 cases out of 100 he will be woefully disappointed if he expects large returns quickly. In no business is the caution "Make haste slowly" more necessary, while in few is it so seldom heeded, as in that of the seedsman or florist who is striving to build up a mail trade. "Keeping one's hands off it brings success." The paying results of advertising are seldom immediate but rather cumulative.

As an illustration of what we mean by the cumulative effects of advertising we may be allowed to mention a case in our own experience. In 1875, when the price of one dollar per agate line seemed prohibitive in our eyes, the representative of the *American Agriculturist*, who at that time was W. W. Beach—than whom we have never met a better advertising solicitor—called upon us. Mr. Beach "talked us into" giving him a yearly contract of more than ten lines of advertising, whereby we would secure 20 per cent reduction on all the advertisements inserted during the year. With a circulation of 100,000 this, as he explained, would bring the cost down to less than one cent a line per thousand and with the character of his journal, that only admitted trustworthy advertisers to its columns, would surely pay. He prevailed upon us to give him for the first month copy for seventy lines, which we did with every feeling of confidence in the results. But alas, for the realization of our hopes! Although prepared with great pains—and to our mind it was a very "taking" advertisement—it brought us just one letter of inquiry and a postal card, neither of which led to a sale. Fifty dollars seemed to us a cost utterly disproportionate to the returns and yet we had a contract for a year to carry out. Therein was Mr. Beach wise beyond many of his co-laborers. As to the ultimate results we need only say that we have renewed the contract every year since, and to-day rank the readers of the *American Agriculturist* among our very best customers. We have on several occasions mentioned this case in conversation with friends in

the trade who have become discouraged because advertising has not paid them and have failed to consider that it requires time to gain the confidence and secure the good will of the readers of any reputable journal.

Therefore we repeat, look upon judicious advertising not as a speculation—to bring profits now or never—but as an investment necessary to establish a permanent business that shall be far reaching in its connections.

And now, Mr. Editor, we have given you what, in the light of our experience, we regard as a few facts, but have not touched upon the figures, for which you also ask. These must be reserved for another occasion, as we have doubtless already consumed too much of your space. We would also, if opportunity offers, like to speak of the circulation of catalogues and the proportion of resulting orders from old customers and from new.

W. ATLEE BURPEE.

Philadelphia, Sept. 17, 1890.

A Reply

AMERICAN FLORIST CO., Gentlemen.—We noticed in your issue of Sept. 1st a letter written to you by J. A. Everett of Indianapolis, in which we were interested. We enclose you a statement we sent him a few days since, also his reply which was mailed Sept. 27th. We think he is a —

— and do not intend to accept his offer of twenty-five cents on the dollar, which he has several times urged us to do. We think this matter should be published in the AM. FLORIST in contradiction of his letter. Respectfully, G. J. MOFFATT.

New Haven, Conn., Sept. 29, 1890.

CAPE VINCENT, N. Y., October 1.—On account of the McKinley bill going into effect October 6 the two large seed houses at this place, the Cape Vincent Seed Company and the Cleveland Seed Company, are busily engaged in freightage from Canada all the peas grown there for them. The Cape Vincent Seed Company has four schooners carrying peas day and night and is running its warehouse night and day.

PHILADELPHIA, Sept. 27.—A reception was given to H. L. DeVilmorin and his son, Philip, both well known botanists of Paris, at the Bellevue last night, by the American Botanical Seeds Union.

TRUMBULL, REYNOLDS & ALLEN, of Kansas City are reported to have sold out.

SOME of the late varieties of squash will produce a light crop of seeds.

Tariff on Seeds.

The import duties on seeds as provided by the new tariff which went into effect October 6 areas follows: "Garden seeds, agricultural seeds, and other seeds not specially provided for in this act, 20 per cent ad valorem." This is the old rate.

The following are on the free list: "Seeds: amise, canary, caraway, cardamon, coriander, cotton, cummin, fennel, fengreek, hemp (old rate by per pound), leek, linseed, mustard, rape, St. John's blood or leek, sugar-beet, mangel wurzel, sorghum or sugar cane for seed, and all flower and grass seeds (old rate 20 per cent); bulbs and bulbous roots, not edible, all the foregoing not specially provided for."

VERBENAS.

Rooted cuttings, fine varieties by mail prepaid, 50c. per 100. By express, 30.00 per 100. 50c. at 1000 rates.

S. W. PIKE & CO., St. Charles, Ill.

UNITED STATES NURSERIES, SHORT HILLS, N. J.

Our Wholesale Catalogue is ready, and will be forwarded to anyone in the trade who has not received same. We offer the following:

ORCHIDS AND CYPRIPEDIUMS.—

Descriptive list with cultural directions for growing the best Orchids suitable for florists just issued, and will be forwarded to anyone interested in this beautiful class of plants.

PALMS in all leading varieties and sizes
FOLIAGE PLANTS of any description.
FLOWERING PLANTS, the best for the florist's use.

FERNs, for Dinner Table Decoration.
HARDY HERBACEOUS.—Now is the time to plant these useful plants.

PITCHER & MANDA,

The United States Nurseries, SHORT HILLS, N. J.

We guarantee 100 cents in plants for every dollar.
Mention American Florist.

THE SEVEN OAKS NURSERIES, NEW CROP PALM AND PANDANUS SEEDS.

We have just received a large invoice of the following, which we can offer at 30 per cent below the usual prices:

Latania Borbonica, 65c. per lb.: \$55 per 100 lbs.
Thrinax elegans, \$5 per Thousand Seeds.
argentea, \$3 per
parviflora, \$2.25
Livistona oliviformis, 10 seeds, 75c.: 100 \$6.
Pandanus utilis, 100 seeds, 35c.: 1000 \$7.50.
20,000 feet of sound Dracaena canes: Fragrans, Terminalis, and Farrier. State quantity wanted, and price will be given on application.

R. D. HOYT,
BAY VIEW, FLORIDA.

Choice Stock Cheap.

Dracaena Indivisa, 4-inch.....	Per 100 \$10 00
Ampelopsis Veitchii, 3-inch.....	3 00
Latania Borbonica, 3 in., 1 year.....	8 00
Aspidistra Variegata, 5 inch.....	\$9 per doz.
Pandanus Veitchii, 4-inch.....	\$12 per doz.
ROSES from OPEN GROUND, Deliver in Dec.	Per 1000 \$70 00
Jacqueminot.....	\$70 00
Hermosa.....	60 00
Agrippina.....	60,00

J. H. CAMPBELL & SONS,
3601 Germantown Ave., PHILADELPHIA, PA.
Mention American Florist.

20,000 DEUTZIA GRACILIS

2 year old plants, very fine and Bushy, especially adapted for forcing.

No. 1, 1 to 1½ ft., \$6 per 100.

No. 2, 8 to 12 in., \$4 per 100.

Send 10 cents for sample, also trade list with a full line of Nursery Stock.

C. RIBSAM & SONS,
Trenton, N. J.

ASSORTED PRIMROSE PLANTS,
in 4-inch pots, strong, \$5 00 per 100, cash.
Address W. B. WOODRUFF, Florist,
Westfield, New Jersey.

HERBACEOUS PLANTS.

ROSE HILL NURSERIES, New Rochelle, N. Y.



IMMENSE STOCK OF
PALMS,
ORCHIDS,
FERNs.
NEW AND RARE PLANTS.

TUBEROUS ROOTED BEGONIAS.

SIEBRECHT & WADLEY.

CHARLES D. BALL,
HOLMESBURG, PHILADELPHIA, PA.,

PALMS, FERNS AND DECORATIVE PLANTS.

My establishment is devoted exclusively to the culture of such plants. The stock is one of the largest, and CANNOT BE EXCELLED IN QUALITY. Prices always moderate.

TRADE LIST ON APPLICATION.

ORCHIDS! ORCHIDS!

Lowest Prices Ever Offered.

Send for special prices of **SURPLUS STOCK** which must be sold now.

Established 1854. **BRACKENRIDGE & CO.,**
Govansstown, (Baltimore), Md.

A. LIETZ,
P. O. Box 644. RIO DE JANEIRO.
PALM SEEDS, ORCHIDS,
NEW CALADIUMS.

For price list apply to
Messrs. ADOLPH v. ESSEN & CO.,
Gr. Reichenstrasse, 73, Hamburg, Germany.

JAPANESE PLANTS.

Trees, Shrubs, Bulbs, Seeds, Etc.
offered at low prices by

FELIX GONZALEZ & CO.
Direct Importers and Exporters,

303 to 312 Wayne and Crescent Ave.,
SAN FRANCISCO, CAL

Wholesale Catalogue mailed free on application.
Mention American Florist

ORCHIDS. NEW AND RARE PLANTS, ETC.

A very extensive stock of Orchids:
EAST INDIAN, MEXICAN, CENTRAL & SOUTH AMERICAN, etc. **PITCHER PLANTS**, a large collection.
NEW AND RARE HOTHOUSE AND GREENHOUSE PLANTS, carefully grown, at lowest rates.
Finest Winter Blooming Roses, Clematis, Dutch Bulbs, Fruit and Ornamental Trees. Catalogues on application. **JOHN SALL**, Washington, D. C.

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:
25,000 Dwarf budded Roses in sorts.
25,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Pontica in sorts.
2,000 Clematis, extra strong plants.
Trees, Shrubs, Evergreens, Conifers, Paeonias and other herbaceous plants.

PLANTS FOR FORCING AND DECORATING.

Address **P. OUWERKERK,**
P. O. Box 1845, NEW YORK CITY.
Catalogue on application.

FERNs. PALMS.

40,000

Fern Seedlings, in the following varieties,

at \$5.00 per 100, from 2½-inch pots,	
ADIANTUM	PTERIS TREMULA,
" C. ROENBECKII,	" ARGYREA,
" GRACILLIMUM,	Per doz. Per 100
LATANIA BORBONICA, 4-inch pots,	\$5.00 \$25.00
" 3-inch pots,	1.50 15.00
" 6-inch pots,	10.00
PANDANUS UTILIS, 6-inch pots,	9.00

Also a large stock of **MUSA SUMATRANA**, the best of all var. Bananas, \$1.00 each; \$50.00 per 100. Address

GEO. WITTBOLD,
School & Halsied Sts., LAKE VIEW, CHICAGO.
Mention American Florist.

Palms and Dracaenas.

LATANIA BORBONICA, 3-in. pots, strong, 15c. each.
CHAMEROPS EXCELSA, 3-in. pots, strong plants, 12½c.; 2-in. pots, small, 6c.
CORYPHEA AUSTRALIS, 2-inch pots, 8c.
WASHINGTONIA ROBUSTA, 4-inch pots, 25c.; 3-inch pots 15c. 10 to 15 other varieties in 5 to 10 and 12-in. pots, some good specimens at low down prices. Over 100 **CYCAS REVOLUTA**, from 10 to \$8.00 and \$12.00, according to size.
DRACAENA TERMINALIS, 5-in. pots, strong plants, 10c.; 4-in. pots 20c.; 3-in. 12c.; 2-in. \$5.00 per 100.
DRACAENA INDIVISA, 5-in. pots, strong plants 25c.; 4-in. pots 20c.; 3-in. 12c.; 2-in. \$5.00 per 100.
Send me your orders, I feel sure I can give satisfaction.

W. J. HESSER,
PLATTSMOUTH, NEB.

FARLEYENSE

Good strong plants, in 4-inch pots,
\$50.00..... per 100.

FISHER BROS. & CO.,
MONTVALE, MASS.

FERNs.

A. Cuneatum, fine plants for shifting.
ROSES, 3 inch, for immediate bedding,
at usual prices. **SEND FOR LIST.**

M. A. HUNT,
TERRE HAUTE, IND.

Our Trade Directory.

Some complaint has been made regarding our list of those in the trade at West Hoboken, N. J., circulars having been returned from that postoffice to the senders, and the correctness of our list questioned in consequence. The following from the Postoffice Department at Washington explains the situation:

"There is no free delivery system established at West Hoboken, N. J., hence mail matter can not be sent out for delivery except upon the order of the addressee, in which case it is delivered to the person employed by the addressee to call for it. The persons to whom the circulars were addressed have employed a private carrier who calls at the office for mail to be delivered to them, for which they pay him a stipulated amount for each letter. They having refused to pay him for the delivery of circulars he declined to deliver them, and they were necessarily returned to the senders as refused, as the addressees do not call at the office for mail at all. This delivery arrangement is one with which the postoffice department has nothing whatever to do. If the addressees of mail do not call at the postoffice for it, and if their agent declines to take it, the postmaster can neither force him to take it, nor can he send it to them by a messenger at his own expense."

AUGUST ROLKER & SONS

No. 136 & 138 W. 24th St.,
NEW YORK,

Importers and Dealers in

**FLORISTS' SUPPLIES, SEEDS,
BULBS, PLANTS, ETC.**

HULSEBOSCH BROS.,

GROWERS OF—

**DUTCH BULBS, FLOWER ROOTS & PLANTS
OVERVEEN, near Haarlem, HOLLAND.**

Offer to the Trade as usual all kinds of the best
**Hyacinths, Tulips, Crocus, Lilies
Narcissus, Roses, Azaleas,
Rhododendrons, &c., &c.**

Catalogues free on application to

A. HULSEBOSCH,

O. Box 3118.

NEW YORK CITY.

GIANT BEGONIAS, TUBEROUS ROOTED

Dry Bulbs.

Orders now booked for November delivery. The flowers of these giant Begonias are 4 to 5 inches across, and the colors are simply grand—undoubtedly the best strain in the world.

HYBRIDA GIGANTEA ERECTA, dark red, or all colors mixed. Bulbs from 1½ to 2 inches circumference. per 100 \$5.00; per 1000 \$50.00

HYBRIDA GIGANTEA ROBUSTA, all colors mixed. Bulbs from 1½ to 2 inches circumference. per 100 \$5.00; per 1000 \$50.00

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HYBRIDA GIGANTEA ROBUSTA, all colors mixed. Bulbs from 1½ to 2 inches circumference. per 100 \$5.00; per 1000 \$50.00

Bulbs! Bulbs! Bulbs!

We beg to offer the following Bulbs for Early Forcing :

LILIUM HARRISII.....	5 to 7 inches in circumference
LILIUM HARRISII.....	7 to 9 " "
CALIA ETHIOPIA.....	First Size
CALIA ETHIOPIA.....	Second Size
FRESIA REFRACTA ALBA, ETC., ETC.	SPECIAL PRICES ON APPLICATION.

SEEDS FOR PRESENT SOWING.

Extra choice strains of Primula Chinensis, Calceolaria, Cineraria, Pansy, etc., 50c. and \$1 per pkt. An extra selected strain of Highland Mary Pansy, very fine, per pkt. \$2.	
DAISY Bellis Perennis fl. pl.....	
" " " Alba.....	
" " " Longfellow.....	50 cts. per packet.
" " " Snowball.....	

**V. H. HALLOCK & SON,
QUEENS, N. Y.**

V. H. H. & Son beg to state they always have a number of first-class gardeners' names on their books waiting for situations, and would be glad to hear from any requiring same.



WE WANT YOUR ORDERS NOW
— FOR —

Chinese Narcissus,

AURATUM, LONGIFLORUM, ALBUM, RUBRUM,
KRAMERI, ELEGANS, AND OTHER
JAPANESE BULBS.

CALIFORNIA LILY BULBS.

Australian Palm Seeds.

California Palm and Flower Seeds.

JAPAN PALM, SHRUB AND FLOWER SEEDS.

Our new Wholesale List of above, and of Trees, Ornamental Shrubs, Plants, Conifers, etc., now ready. SEND FOR IT.

H. H. BERGER & CO.,

P. O. Box 1501, SAN FRANCISCO, CAL.

CHOICE FORCING BULBS AND PLANTS

ALL THE LEADING KINDS.

FRESH PALM SEEDS, NEW CROP PANSY SEED, MEMORIAL WREATHS AND CROSSES, the best imported from Germany and France, FLORISTS' SUPPLIES, Etc., offered at reasonable prices, as per my fall list, which will be sent free to all florists and dealers.

ORCHIDS: Just arrived a splendid lot of

ODONTOGLOSSUM CRISPUM (Alexandric).

LUTHA PURPUREA.

CUSPIDATUM.

CATTLEYA TRIANÆ.

SANDERIANA.

Prices quoted on application.

Address **J. A. DE VEER, 18 Burling Slip, NEW YORK.**

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NAR-

CISSUS, SPIRÆA, LILIES

OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale Importers should write us for prices.

Our new Bulb Catalogue is now ready. Will be mailed free on application.

APPLE GERANIUM SEED.

Per 1,000.....\$ 3.00

Per 10,000.....25.00

Cash with order from correspondents not well known to the trade. Address

**BROTHERS INDUSTRIAL GARDENS,
MOBILE, ALABAMA.**

C. H. JOOSTEN,

3 Counties Slip, NEW YORK,

— IMPORTER OF —

FORCING BULBS.

IMPORTED HARDY ROSES,

Strong Clematis, Etc., Etc.

Mention American Florist.

**MUSHROOM
SPAWN**
GUSSET MILLER

10 lbs. 25 cts. 50 lbs. 100 lbs.
\$1.25 \$2.75 \$5.00 \$8.00

JOHN GARDNER & CO.
PHILADELPHIA, PA.

DUTCH BULBS,

NOW READY.

THE WISCONSIN FLOWER EXCHANGE,

183 Mason Street, MILWAUKEE, WIS.

ORIGINAL AND LARGEST GROWERS OF
LILIUM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view to one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 120 in length, o a crop of Liliium Harrisii in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fills in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in. For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his own use. We hear it said occasionally that Liliium Harrisii flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so well packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

— HALF A MILLION BULBS. —

Be sure you get the genuine Liliium Harrisii. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant *L. Longiternum* in Bermuda, planting it with Harrisii to increase their stock rapidly when Harrisii was very scarce, thus mixing the stock, irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Foreign Notes.

JEAN BAPTISTE ALPHONSE KARR, the well known French author and horticulturist, died October 1.

WILLIAM HOLMES, Secretary of the National Chrysanthemum Society of England, died September 18, aged 38 years.

THE DAHLIA conference at Chiswick the latter part of September brought out a fine display of dahlias, comprising every section. A lecture on the "Origin of the dahlia" was delivered by Mr. Shirley Hibberd.

MESSRS E. H. KRIEGLAGE & SON of Harlem, Holland, exhibited six spikes of Gladiolus "Snow White" at the meeting of the "Dutch Royal Horticultural Botanical Society" at Amsterdam August 26 and received a first class certificate of merit for them.

Overhead Heating.

I would like to know if four 1-inch steam pipes run the full length of a house 11x50, suspended four inches from the glass and two feet apart will give me heat enough for a general stock of plants? I have a 4-horse power boiler, upright, five feet below floor of greenhouses. A reply to above will be much appreciated.

Wethersville, Md. J. A. HEIDLER.

Established 1835. SEASON 1890-91.
Nurserymen & Florists' Supplies

GENTLEMEN:—We have increased our list of supplies for the coming season, and are now able to offer a complete stock of all Packing Materials, as well as the necessary Field Tools. We hope to have your valued order soon.

Wood Labels (printed and plain), all sizes..... 10
Wood Labels (pointed), for florists, all sizes..... 10
Wire (iron), cut in coils, for labels..... 30
Wire (copper), cut in coils, for labels..... 30
Paper Sacks for Grape culture, all sizes..... 50
Sewing Needles, for baling..... per lb. 50
Sewing Twines, in bails..... per lb. 18
Sewing Twines, in coils..... per lb. 18
Wool Twine (1 lb. bails, 10 lb. bales)..... per lb. 7 1/2
Cotton Twine, for Budding or Grafting..... 35
Buckets, all sizes..... each 5
Burton, 40-inch, seven to nine ounce..... 50
Heavy Digging Spades, 18-inch..... each 5
Heavy Taper Spades..... each 1 1/2
Nails, 7-inch to 30d..... 1 25
Planting Dibbles..... 1 25
Hoop-iron, for strapping cases..... 8 1/2
Bamile Paper (Gum), 40 lb. reals..... per lb. 7
Tin Eyelet Shipping Tags, printed or plain..... 7
Bamile Paper, for wrapping Grafts..... per lb. 7
Metal Cellar Tape..... per lb. 7

Our Gum Baling Rope has been entirely satisfactory every where the past season. It is the softest and cheapest baling rope ever offered free shippers. Prices subject to market changes. Liberal discount to large buyers, and samples sent on application.

W. S. PHELPS' SONS,
23 & 25 E. Second St., DAYTON, OHIO.

Kills Mildew and Fungus growth. What does GRAPE DUST.
Sold by Seedsmen.

MISSOURI NURSERY CO., Louisiana, Mo.
Business wanted; special ads; magnificent outfit free.
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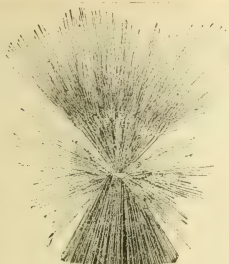
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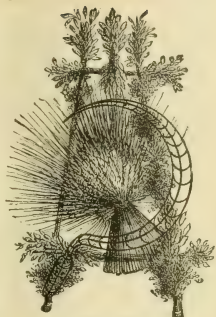
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S. A. F. Attention

Our defeated competitor in "Standard" Flower Pot contest at the Boston meeting, for the **Certificate of Highest Merit**, reflects on the members of the Committee of Award as not being impartial in their decision. The members of that Committee were M. A. Hunt, Terre Haute, Ind., Chas. Henderson, of the firm of Peter Henderson & Co., New York, and Wm. K. Harris, Philadelphia, Pa. No fairer or more competent committee could be selected from the members of the S. A. F., and as far as diligent inquiry reveals, their decision meets with the approval of everyone excepting A. H. Hews & Co.

The official programme gave notice that the Certificate would be awarded to the display "which most nearly approaches the 'Standard,' such display shall consist of not less than one dozen of each size, made from working molds and not turned down." The sheet with drawings of the pots (which was gotten up by A. H. Hews & Co., under the instructions of the Committee of S. A. F. and sent to the different potters for their guidance) shows 17 sizes, and the number we exhibited; one dozen of each, as required. In regard to the statement published by A. H. Hews & Co., that "very many" of our pots were **"either ground, filed, turned or sand-papered to size,"** we wish to distinctly say that this is **FALSE**. The pots we exhibited for the Certificate were made exactly as we make them for our customers, and were not altered in any way whatever; in fact it is impossible to alter the inside measurement after a pot is once made; a mold that will make one pot correct will make any number (until the mold wears out) exactly the same. In reference to the absurd "propositions" of Messrs. A. H. Hews & Co., we decline to be a party to the proposed exhibitions as it would be a gross insult to the honorable gentlemen of the committee, who, after giving their time and labor to the society, are at least entitled to common courtesy.

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These Mills are guaranteed the **BEST** of their class. Are not made cheaply, but heavy and strong in construction. They are rapidly taking the lead of all Solid and Vaneless Mills on the market.

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We make a complete line of **WIND MILL, HAND and POWER PUMPS, Brass and Brass-Lined CYLINDERS Our 3-Way Force Pumps have no equal.**

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We make the largest assortment of Tanks on the market, consisting of Round, Half Round and Square Stock Tanks, Milk Cooling Tanks, Storage and House Tanks. Special sizes made to order.

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Insures Greenhouses against damage by hail. For full information, address
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WE MANUFACTURE THE EXACT STANDARD FLOWER POT.
Send for our new price list, dated August 1st, 1890, and you will notice that our prices are lower than ever before.

OUR WARE GIVES PERFECT SATISFACTION.
GIVE US A TRIAL AND CONVINCE YOURSELF.

SIPPLE, DOPPEL & CO.,
SYRACUSE, N. Y.

I was at Boston!

But lots of my friends by mail didn't meet me because the Society of American Florists hadn't provided the means of identification they agreed to at Buffalo. I may have to wear a red coat at Toronto; I don't want to miss so many people again! I'm not pretty, but I want to see who I am writing to, when I can; and I want to be seen and known.

Meanwhile

I am ready to talk 1891 Catalogues by mail. The Mount Pleasant Printery is "fixed" to do a lot of good printing for the trade this winter; and any florist can "get in" to the advantages by writing about what he wants.

J. HORACE MCFARLAND, HARRISBURG, PA.

Order Now
A Copy of our New
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CATALOGUES. FLORISTS and SEEDSMEN write to The Aldine Printing Works, Cincinnati, O., for samples and prices before ordering elsewhere.
[Mention The American Florist.]

S. A. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

Many of our friends agreeing with us that the award on Standard Pots at our late Exhibition was an unjust one, we shall use the advertising columns of the AMERICAN FLORIST to state our side of the question.

We asked the Executive Committee to give us an impartial committee of award. The following propositions should convince anyone whether **WE FEEL** that we have had such a Committee.

The following is the text of the matter in question, taken from the official programme:

"Manufacturers of FLOWER POTS are notified that a Certificate of highest merit will be awarded to that display of Pots shown at this exhibition, which most nearly approaches the Standard. Such displays shall consist of not less than one dozen of each size, made from working molds and not turned down."

One member of the Committee of Award said that we were not entitled to any award because we exhibited but fifteen sizes, while others exhibited seventeen, and that seventeen cuts were represented on a white sheet of Standard Pots. We fail to see that the award was offered for any specific number of sizes, but that twelve of each size should be presented. **A MUCH MORE IMPORTANT PART OF THE COMMITTEE'S ANNOUNCEMENT** was that the pots should be **MADE FROM WORKING MOLDS AND NOT TURNED DOWN**. We do not hesitate to make this public statement that the Flower Pots to which was awarded the Certificate of highest merit were **VERY MANY** of them **EITHER GROUND, FILED, TURNED or SAND-PAPERED** to size, and for that reason alone were not entitled even to a measurement by the Committee of Award.

WE WISH TO MAKE TWO PROPOSITIONS.

First. We will put up **\$1,000 in Cash** and submit the same pots exhibited at the late Exhibition against the pots exhibited by our competitor, and leave it to an impartial committee of three, and if our pots do not come the nearest to the requirements, we will present the \$1,000 to the fund of the Society of American Florists.

Second. We will put up **\$2,000 in Cash** and produce 500 pots of each size from 1 1/4-inch to 7-inch inclusive, and 250 pots each from 8-inch to 12-inch inclusive, making 7,250 pieces, made from the same moulds in which the pots we exhibited were made, and all shall be of the proper thickness in all respects, against an equal number of pots made from the same moulds that produced the pots receiving the award, and if an impartial committee do not give us the award we will present the money and the pots to the Society of American Florists for an experiment station. And if we are allowed to choose one of the committee of three, we will select our honorable Treasurer Mr. M. A. Hunt, of Terre Haute, Ind.

A. H. HEWS & CO., North Cambridge, Mass.

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Florists'



Immortelle Letter and
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W. J. STEWART.

A. T. Cefrey

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N. F. MCCARTHY.

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DEAR SIR:—Send at once ten thousand small letters and five hundred large (two inch.)
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We wish to announce to all florists that we have removed to much larger quarters, **No. 13 GREEN STREET, BOSTON.** We make our letters by machinery; they are not only more perfect in size, shape and color, but are the best and cheapest in the market. Our 2-inch letters are only two and a half cents, and the 1 1/2-inch letters are only two cents apiece. Your customers will have no o's. Be up with the times! Send us your orders and we will ship you a supply for this winter. **They are the best in the market.**

THE CEFREY LETTER CO., 13 Green Street, BOSTON, MASS.

A Skull for a Flower Pot.

W. G. VanBuskirk, the master mechanic of the Terre Haute & Peoria Railroad shops at Paris, Ind., has a peculiar flower pot hanging in his door yard. This gruesome relic is made out of a human skull, and is suspended with slender chains. The brain cavity is filled with earth, and a beautiful growth of vines creeps from the empty sockets and grinning jaws. Across the forehead is printed the inscription, "To what base uses may we come at last," and the beholder as he gazes on this ghastly burlesque on human greatness can not refrain from involuntarily echoing the sentiment. The skull has something of a history, being that of a theological student who committed suicide. He was interred in a small graveyard which afterward fell into disuse and decay and was finally sold for building purposes. In making an excavation the skeleton was exhumed and the skull came into Mr. Van Buskirk's possession.—*Easton, Pa., Press.*

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WITHOUT A RIVAL EITHER IN
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EITHER FOR TOP OR SIDES.

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WITH PATENT VENTILATED AND PERFECT DRAINAGE BOTTOM.

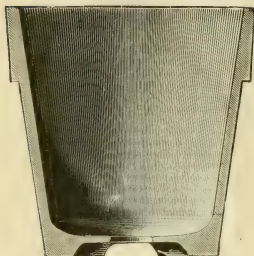
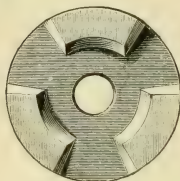


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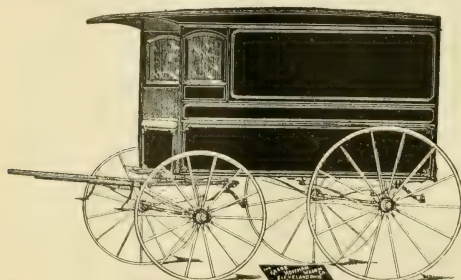


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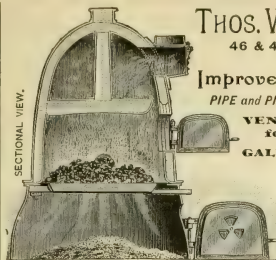
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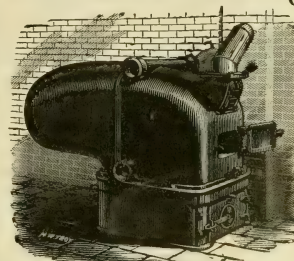
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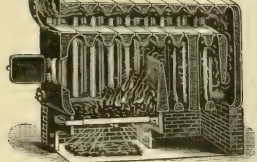
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Vol. VI.

CHICAGO AND NEW YORK, NOVEMBER 1, 1890.

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American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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Philadelphia Mum Notes.

Chrysanthemums.

"Gloriosum" is the first to make its appearance in quantity and quality; but there are not nearly enough to supply the demand, and that at \$15 per dozen wholesale.

Only last year at this time some of the retail florists deplored the fact that some of the growers had devoted their time, space and intelligence to the production of only first-class, high priced flowers, instead of those at a dollar per grab (which was rarely less than 100). The same retailers this year, are the most eager after the better class of blooms. And we are pleased to be able to so record it. "A wise man changes his mind, a fool never."

In a recent issue of the FLORIST Mr. Chitty says, in mentioning chrysanthemums, "their very presence seems to create a necessity for something else." We in this city cannot indorse that assertion. It is really the opening of the season for flowers. I would like Mr. John Westcott to express himself on that point.

Just at this time roses are plentiful and in a short since it is to be feared, they will be too plentiful. Rose growers should, by judicious disbudding avoid the rose glut which is inevitable at this season of the year if some intelligent action is not brought to bear on this very important matter.

Give the mums a chance by withholding the large crop of roses at this chrysanthemum time of the year, and the Queen of Autumn will be voted a blessing by the very men who have heretofore vigorously denounced her as an usurper.

If the number of rose buds is vigorously reduced at this time when only a very low wholesale price is paid for them, the plants will be better able to withstand the high pressure to which they must be subjected later on, when Beautys and La Frances and all good roses are more highly appreciated, and every body interested is better satisfied and infinitely better prices rule all around.

To return to chrysanthemums Mrs. Bullock will be the next one to claim the attention of the public in numbers, and as to quality for a white it is hard to beat, either as an exhibition plant or when

grown for cut flowers. When "L. Canning" was first sent out it was compared to the Bullock, as possessing superior keeping qualities, to the older well-known kind, but there is no rivalry between them, most of the Mrs. Bullocks will make their exit before Miss Canning makes her bow. Mr. John Thorpe says that the Canning is the best white chrysanthemum in existence.

Before this meets the eyes of your readers, lots of flowers will have been cut and plans for the future will be in the course of formulation.

There are too few of us who take the time and trouble to make notes. We depend altogether too much on our memory which is often treacherous. Some varieties are better disbudded to a solitary flower, while others are better left as sprays; which the new varieties are better suited for can only be determined by experiment. Philadelphia as a market seems to incline more to sprays than to individual flowers at present. Another matter which it is necessary to carefully note is the time of flowering and whether the flowers contain the necessary amount of substance to warrant them in shipping well—long distances—if necessary.

We do not hear much in this city about Mrs. Alpheus Hardy as a cut flower so far, it was said last year that it was too weak in the stem. Certain it is—it is the most chaste and beautiful variety we have up to date. It is the only variety with which Adiantum cuneatum associates in perfect harmony. Boughs with the various colored autumn leaves are generally mingled effectively with the varieties in general.

I have not seen any of the specimen plants for exhibition purposes yet. So that I can only speculate on who has the finest lot. Eben J. Williams Colish has some good ones, so also has W. K. Harris, and the winner of the highest premium last year, Mr. Vernor, gardener to A. J. Drexel, Esq., it is said has some prize winners. The valuable and varied premiums offered by the friends and members of the Pennsylvania Hort. Society, in addition to the money prizes offered by the society itself, ought to bring out the very best talent in chrysanthemum culture that can be found within safe shipping distance from this city. Any person who has an interest in such matters, whether they intend to exhibit or not, would do well to apply to Secretary D. D. L. Farson who will cheerfully forward a copy of the premium list to all who apply for it.

Much interest centers in the seedlings and new varieties generally. It is said that William K. Harris has not so many in number this year as formerly. The seed did not mature satisfactorily or did not germinate freely. Robert Craig, who has not figured heretofore as a raiser of seedlings, has them in great numbers and

THE AMERICAN FLORIST will be a weekly visitor henceforth and without any increase in the subscription price.

CORRESPONDENTS should bear in mind that copy should reach us by Monday at latest in order to insure insertion in the issue of the following Thursday.

in all sizes, and amateurs and their gardeners have them in larger quantities than ever before, so that there will be no scarcity of interest among the admirers of something new.

I received through the mail last evening two new varieties from Mr. Elijah A. Wood, West Newton, Mass., and the names are hereby put on record: "Mrs. E. W. Wood" and "James H. Freedland." The former is a rich dark purple after the style of "Hon. John Welsh," but the flower is larger and has more substance than the old variety had. The latter is a very large flower with broad petals, bluish in color which will no doubt become pure white after being open a few days. It certainly appears to be an acquisition.

If all raisers of seedlings and distributors of new varieties would be good enough to forward the names of their novelties to me they would be registered, and thus avoid this confusion of duplicate names. Most of the chrysanthemummen have agreed to do so, and I trust all will see the importance and necessity of doing so and forward names, accompanied with their respective flowers; a description could also be recorded with the name, and in due time given to the public.

EDWIN LONSDALE.

A New Departure.

Mr. Thorpe's article under the above caption in the last FLORIST reminds me that I too have something to say in that connection; not in naming new chrysanthemums—I will leave Mr. Thorpe in undisputed possession of that field, and long may his "Esperanza" and "Tommy Adams" live to adorn the now somewhat lengthy list of mums. But this season I have adopted an entirely new plan of growing my chrysanthemums and am so far so well pleased with the results that I hasten to impart the news.

Heretofore I have always grown my mums through the summer with the pots either standing on or partly plunged in coal ashes, rotten tan bark, or some other material, which plan required nearly the whole time of one man pouring water on them to keep them alive, to say nothing of keeping the foliage in something like a presentable shape; and often after the most unremitting attention had been bestowed upon them all summer, many of them would look in September as though a cyclone had struck them, and the stems would appear so hard and dry that they did not seem to possess vitality enough to develop into flowers the few miserable buds that terminated their stems.

This season, however, when my plants were large enough to require shifting from 4-inch pots into larger ones, they were so shifted into 6-inch pots; then a trench was dug across a piece of ground, two inches deeper and a little wider than the pots, the pots stood along the bottom of the trench about two inches apart and the earth filled in and firmly pressed down on each side of and between the pots until the spaces were all filled to their rims; the plants were then treated to a good watering and allowed to stand until the water had soaked away, the balance of the earth was then replaced, moderately well pressed down, and finished off evenly, after which nothing was done to the plants excepting keeping clean of weeds until the time to place them under glass; not a drop of water did they require or get except what fell from above, and such plants they were as did no good to be put at, with the large green healthy foliage down to the very surface of the ground.

On the first of September we began to lift them to plant inside where they were intended to flower and although many of them were quite large and sappy the whole operation was performed without the loss of a plant or even the wilting of a single leaf, in striking contrast with some so called field grown plants which were lifted a little later (plants turned from small pots and planted in the open ground and allowed to grow there) and which required over three weeks to recover from the shock. My beds are now a mass of buds with foliage as green and healthy as it is possible to be and it now looks as though I shall be able to cut chrysanthemums by the wagon load.

But now for the new departure! The plants above described now occupy the centre beds of some of my carnation houses, which in fact was the only means at my disposal for the accommodation of so fine a lot of plants; the side benches were then filled with carnations, I then made arrangements to have potted in 6-inch pots enough carnations to fill the centre beds as soon as the mums are out. The carnations are now in sunken frames, four or five thousand of them in number, and are filling the pots handsomely with roots. The mums are planted in rotation as they flower so that when the earliest are all cut we shall immediately fill up with carnations and so on until the very latest are all disposed of.

The carnations being in frames that are sunken the depth of the pots below the lower edge of the boards of which they are made, will with sashes over them be perfectly safe even though quite a severe frost should happen.

My expectations are to secure two full and perfect crops of flowers from beds where only one crop, viz: carnations, had heretofore been realized, because the time between the removal of the old carnations and planting out the new ones was so short as to preclude all possibility of growing an intermediate crop.

Should this plan therefore be a success, for which I can see at present not the slightest reason to doubt, it will be a clear gain of the crop of chrysanthemums. The carnations occupying pots are advancing just the same as if planted on the benches; they in reality are even more rugged in consequence of an extended outside exposure, while at the same time they are throwing up their buds so as to be ready for business when ultimately required to replace the mums.

H. E. CHITTY.

Faterson, N. J., Oct. 9, 1890.

Nomenclature.

In your last issue I read the communication from Mr. J. Thorpe and was amused and puzzled to know whether the article was intended for satire or whether Mr. T. was in sober earnest. If the latter I for one take exception to what he says about the name of a plant not helping its sale. We had this matter ventilated a few weeks ago with reference to the chrysanthemum Mrs. Alpheus Hardy. It was made clear at that time that a descriptive (or catchy) name helped to sell the plant. And I have frequently noticed that amateurs in making selections from catalogues select the varieties having the most pleasing names. Another reason why short names are preferable is that long ones are sure to be abbreviated and any one not well posted may easily be misled. I find in my own case that in writing labels for stock plants I often omit the initials of a given name, and if there are as many as the Jones or the Greens commemorated by horticultural admirers the varieties are bound to get mixed. I

believe a short simple name is the best, and believe the plant so named, if its merits are equal, will sell better than the plant with the long name. I know a family who have a son named Zerubbabel and know some others in the possession of names who I imagine often wish a committee on nomenclature had been consulted at their christening who would probably have relieved them from the load they have to carry through life. What prompted me to sit down and inflict this upon you and your readers was this: Four years ago I bought a collection of chrysanthemums from Peter Henderson & Co., and one of them was labeled G. W. Childs, I thought possibly some one else had pre-empted, so to speak, that name already.

C. B. Arlington, N. J.

Judging Plants by Points.

The plants entered for competition at the chrysanthemum show of the Pennsylvania Hort. Society to be held at Philadelphia, November 10 to 14, will be judged by points as follows:

Size of bloom and quality.....	30 points
Size of plants.....	30 "
Distinctiveness of form & color 10 "	
Foliage.....	20 "
General effect.....	10 "

Total.....100

Coming Exhibitions.

November 4-6, Orange, N. J.—Chrysanthemum show, New Jersey Floricultural Society.

November 4-7, Chicago.—Chrysanthemum show, Chicago Florist Club.

November 4-7, Erie, Pa.—Chrysanthemum show, Erie Chrysanthemum Club.

November 10-14, Philadelphia.—Chrysanthemum show, Penna. Hort. Society.

November 11-12, Toronto, Ont.—Chrysanthemum show, Toronto Gardeners' and Florists' Club.

November 11-13, Boston.—Chrysanthemum show, Mass. Hort. Society.

November 11-13, Montreal, Canada.—Fall show Montreal Gardeners' and Florists' Club.

November 11-13, London, Ont.—Chrysanthemum show, Forest City Florists' and Gardeners' Society.

November 11-14, Detroit, Mich.—Chrysanthemum show, Detroit Florists.

November 11-14, Baltimore.—Fall exhibition Gardeners' Club.

November 11-15, Cincinnati.—Chrysanthemum show, Cincinnati Florist Club.

November 11-15, Indianapolis.—Chrysanthemum show, Society of Indiana Florists.

November 11-15, Louisville, Ky.—Chrysanthemum show, Louisville Florists.

November 12-13, Worcester, Mass.—Chrysanthemum show, Worcester County Hort. Society.

November 12-14, Hartford, Conn.—Chrysanthemum show, Hartford County Hort. Society.

November 12-14, Minneapolis, Minn.—Chrysanthemum show, Society of Minnesota Florists.

November 13-15, Springfield, Mass.—Chrysanthemum show, Hampden Horticultural Society.

November 13-15, Buffalo, N. Y.—Chrysanthemum show, Buffalo Florist Club.

November 14-15, Providence, R. I.—Chrysanthemum show, Rhode Island Hort. Society.

November 19-21, Utica, N. Y.—Floral exhibition, Florists' Club of Utica.

November 20—, New York.—Exhibition New York Florist Club.

VARIETIES OF *EPIPHYLLUM TRUNCATUM*. (SEE PAGE 136.)**New Early Chrysanthemums.**

We are quite fortunate this year in finding some really fine and valuable new varieties from the French introductions; last year it was quite the reverse, only a small percentage being of any value.

We must bear in mind, however, that our European friends have been trying hard for early bloom in their new sorts, and many of the best imported varieties are not known in our country because they can not be shown in good condition at our November shows, and it really

seems that unless a new chrysanthemum can make a record at one or another of our prominent exhibitions, it is bound to be very slow in gaining recognition. Of this fact, however, we have no complaint to make; the exhibitions are splendid opportunities for prospective buyers to see the true character of novelties offered.

Among the new ones of this year is a very beautiful, rather dwarf, white, flower medium to large, soft and plump in effect as it is extremely free; among November's white varieties it would be in no wise remarkable, but coming into bloom from

October 1 to 5 it at once becomes valuable. This is Mme. Ferdinand Bergman from Delaux. Another very pretty variety coming only two or three days later is Rose Laing (Delaux); the flower is of good size, center soft heliotrope pink, prominently whorled, and showing finely against reflexed outer petals of pale silvery pink lined deep mauve. We think this one of the very best of the earlies; it is well thought of across the water, as the Belgique *Revue Horticole* gives a fine colored plate of it.

M. Harry Laing (Delaux), comes into

bloom at the same time and reminds one of Lillian Bird in its early stages and is a really pretty early sort.

Mme. Sautel (Hoste). Another pretty pink, tipped yellow in the center.

Ulrich Brunner (Hoste), large rose violet, color of E. Audigier; of extra size, even for a late sort.

Aurora (Lacroix). One of the earliest of all, and a fine enough yellow to go to the November shows; has been in bloom two weeks or more.

Souv. de M. Menier (Delaux), larger than the average Cullingfordii and quite similar in color.

Margaret Decazis (Lacroix). Good sized vine pink with whorled center; informal.

M. R. Bahnant (Hoste), good sized terra cotta, quite similar in shade to W. W. Coles.

Circe (Lacroix), pure chamois color, recurving and reflexed petals; a good chrysanthemum even among later sorts.

M. H. de Fortanier (Hoste), deep velvety lake; of extra size. We consider this extra fine.

We send specimens of all the above, labeled. The rest are from a lot of our seedlings, and we think several of them more than ordinarily good for mid-October sorts.

Finally we enclose a few M. Norman Davis and M. Neville that you may compare these two, which have been highly prized heretofore, as good early sorts.

All of the enclosed blooms are from field grown plants to which no special care was given and which were brought to beds in the house just before frost.

S. A. HILL.

Chrysanthemum Synonyms.

A correspondent of *The Garden*, London, gives some interesting notes on synonyms among chrysanthemums. For instance, in 1886 Messrs. Cannell exhibited several new varieties imported direct from Japan, and which they distributed the following year. Among those which received a first-class certificate, and which was indeed quoted at a higher price than any other, was Mrs. H. Cannell with beautiful pure white flowers. Now, this is by all growers (Messrs. Cannell included) regarded as synonymous with Christmas Eve, a variety distributed by the American nurserymen, and sent to this country two years previous to the distribution of the other, viz., in 1885. Another flower is Lady Trevor Lawrence, which is the same as Mrs. Beale and Robert Bottomley, this last coming from the other side of the Atlantic. Several other instances are recorded in different catalogues of the same variety being distributed by an English and an American nurseryman under different names. Included among the number are Mr. Frank Thompson and Mr. W. G. Drover, Marvel and Mr. H. Wellam, Charlie Sharman and W. M. Singerley, Mrs. Vannamann and Mr. Addison, with Mrs. J. N. Jerard and Mrs. Dunnett. All this is, no doubt, to be accounted for by the fact that they have been imported direct from Japan, and, therefore, the identical varieties have been distributed on the two continents.

Epiphyllums.

These are very popular house or greenhouse plants, true cactuses, and natives of Brazil, particularly of the Organ mountains, under 4,500 feet elevation, and where they are found mostly as epiphytes upon trees. We generally call them lobster-claw cactuses from the likeness of

their jointed branches to the jointed claws of a lobster.

Two species, namely, *Epiphyllum Russellianum* and *E. truncatum*, are common in cultivation, the last named and its varieties being the most frequent; hybrids, to wit, Gartneri and Makoyana also occur. We often find some of the large, flat leaf cactuses (phyllocactus) named epiphyllum, but modern botanists do not so include them.

Epiphyllums are of the easiest possible cultivation and will endure a great deal of abuse with very little complaint, at the same time with lusty growth and floral profusion they will repay considerate treatment. They are grown upon their own roots, also grafted upon other cactuses, and do well in both cases. Own-root plants are raised from cuttings and they make pretty, dwarf pot plants or basket plants, and every bit of a branch, small or large, will root readily if kept dry for some days before planting.

Pereskia aculeata, or Barbados gooseberry, is a thorny, woody vine, and although not at all like a cactus, is one nevertheless. It is the stock on which epiphyllums are mostly grafted. We may graft them at the ground line, a few inches above ground, a foot or two, or in fact at any height we please, or we may run the pereskia up a pillar or rafter in vine fashion and insert a few scions of epiphyllums here and there along it where we please. For an illustration of this sort see the FLORIST, page 327, March 1st last.

The pereskia is slender stemmed and a big-headed epiphyllum upon it always needs support. The great advantage of the pereskia as a stock consists in its tough never-die nature, much rooting and hearty feeding qualities.

Tall, stiff, upright growing fleshy cactuses, many of the ceruses for instance, make excellent stocks for epiphyllums, and as they are perfectly able to support unaided the large heads of lobster-claw cactuses a very fine effect is secured, especially when the ragged branches drop down three feet or more as those of old plants will often do.

For epiphyllums as for all other cactuses thoroughly drained pots are imperative.

They like a firm, gritty soil free from fresh manure, and when well established enjoy a liquid stimulant occasionally. I keep them somewhat moist at all seasons of the year and give them water freely when they are in full active growth. Most cactuses enjoy the full open sunshine, but the epiphyllums do not, open like a thin shade. At the same time I know many plants that do well in full sunlight. Care must be taken to use a temperature in winter suits them admirably; the younger plants preferring the warmer quarters. To save trouble I put them out of doors in summer plunged in a slightly shaded spot, and bring them inside in September. They bloom very full in November and December, also in early spring.

A real pretty way to use them is to set out some large dwarf plants in wire or wooden suspended baskets which are also planted all around with *Selaginella uncinata*. The moss will grow down all around, 2 to 3 feet, like a long fringe trimming to the vivid mass of cactus plant in the middle. They are also often planted into mosslined fernery walls along with begonias, fittonias, peperomias and the like in greenhouses, keeping the cactuses nearer the light.

Among the finer varieties are *Aurantiacum*, orange; *albo-violaceum*, white and violet crimson; *bicolor*, white and rose; *Bridgesi*, Madam Courant, Rucker-

ianum, Snowit and tricolor, differing somewhat in their tints of white, scarlet rose and carmine purple. F.

Azaleas.

These useful spring-blooming plants take quite a prominent place in the stock of many florists, both as cut flowers and also for decorative work, and with good reason too, for there are few plants so effective as a well flowered azalea.

At the same time it may be remembered that it costs no more to grow good varieties than poor ones, the same attention being necessary to keep either in good condition, and as good sorts are to be had at reasonable prices it pays to rejuvenate the stock from time to time.

Many of the imported plants of standard habit are received in good condition each season and give satisfaction to the purchasers, but it is not absolutely essential that azaleas be imported to secure good plants, as with proper care first class plants may be grown at home.

Of course it has been said that fine stuff could be secured for such low rates in Europe that it did not pay the home florist to grow azaleas, but this is still an open question and may be differently decided in future years. The fact remains, however, that it is not an extremely difficult operation to root azalea cuttings providing the cuttings are made from short young shoots taken off with a heel of the old wood attached to the base, and with many varieties even this precaution is not needed, but in all cases a sharp knife should be used for the operation so that a clean cut is made. The cuttings should be kept rather close at first, as when once wilted they seldom root.

If grafted plants are required the stocks must first be provided, the most common sort for this purpose being the old single purple variety known as *Phœnicia*. This variety roots very easily and the young plants soon run up to a height sufficient for grafting.

The union between stock and graft is soon accomplished if the plants are kept in a warm house and fairly well shaded, and after this is completed the plants should be grown on in a well ventilated house, the shoots being pinched back from time to time so as to ensure a nicely shaped head.

An easy method of handling the young stock during the summer is to plant them out on the side benches of a cool house, moderately shaded at first but gradually dispensing with the shading as the growth progresses, and with thorough syringing and an occasional fumigating to keep down thrips, the plants so treated will be found to have made more and stronger growth than plants of the same age that have been kept in pots all summer.

In the fall, after the growing season is over, the plants may be lifted and firmly potted into as small pots as the roots will permit.

In the matter of soil there has also been some change of opinion of late years, for it is now known that while peat is a welcome addition to most soils when used for azalea culture, yet it is not absolutely indispensable, for good azaleas have been grown in pure loam and sand, and therefore a lack of good peat need not be a barrier to the successful culture of these plants.

Among the hundreds of fine varieties now in the market it is not an easy matter to select a short list suitable for general use, but the following varieties are all good reliable sorts and include enough variation of colors for all ordinary purposes:



GROUP OF DECORATIVE PLANTS AT THE BOSTON EXHIBITION.

For whites, (and these are doubtless the most useful to the average florist), "Deutsche Perle," "Flag of Truce," and "A. Borsig," are three of the best semi-doubles, and if a single-flowered variety of this color is required, either "Fielders' White" or *indica alba* is recommended.

Amid the host of pink sorts "Mad. Van der Cruyssen" stands out as the finest for general use. It has large flowers of a most effective shade, forces well and is generally satisfactory. "Bernhard Andreas" is a good semi-double of this hue, and (Oswald de Kerchove is also a strong and rapid grower and produces very large and somewhat irregular flowers of a very pleasing shade of pink.

"Eugene Mazel" is among the best of the reds, being a nice grower and most floriferous, and is much favored by many commercial growers. "Md. Iris Lefebvre" is another red of good habit, the flowers being double and of a peculiar shade.

A small number of striped varieties may also be found useful at times and of this type "Punctulata" and *Bijou de Paris* are among the best, both being of

shapely habit and very free in flowering.

A fine old sort that should be included in every collection is "Souvenir du Prince Albert," a double or sometimes semi-double variety with bright pink flowers that are edged with pure white, and another equally useful is "Reine des Pays Bas," the latter being a very free grower and bloomer, and the flowers of which are of a peculiar tint of pinkish violet shading to white.

W. H. TAPLIN.

Group of Plants at Boston Exhibition.

While we have already given illustrations of displays at the great exhibition at Boston last August, the accompanying engraving will still be very acceptable, as being made by the half-tone process from a photograph it gives a far better idea as to the quality of the plants shown as well as the beautiful effect created by the masterly way in which they were arranged, than could the hastily executed drawings from which the illustrations previously presented were engraved,

though the latter were certainly excellent considering the very short time in which they were prepared.

The Fuchsia Beetle.

Look out for this pest. It can do an enormous amount of damage in a very short space of time, almost before you are aware of its presence unless you keep a sharp look out.

An article by Ernest Walker, which appeared on page 568 of No. 118, (July 1, 1890), gave a full description of the little imp.

The gardener at Garfield Park, Chicago, had a visitation, and he finally got rid of them in the following way: He prepared strong suds from whale-oil soap and with this syringed the plants forcibly from below, the plants being on side benches. The force of the liquid carried the insects up against the underside of the glass where they were held by the sticky suds. Then he passed along and smashed them against the glass with his thumb.

The beetles usually appear the latter part of May or early in June and should be prevented from obtaining a foothold at that time. Their ravages are so serious that unless held in check they will make it next to impossible to grow fuchsias.



As there are but few questions absolute in their nature; nearly all being relative to time, place, and environment, so it may be that the question of benches or solid beds for roses is also subject to various modifications.

When a rose-grower speaks of Mr. May's experience and reputation, necessarily his authority has weight and we all pay due heed to his advice. When, therefore, he pronounces upon this question by a decision absolutely adverse to the solid bed system of growing roses, it is, perhaps, superfluous to advance any further argument. Yet as the writer has had considerable experience with solid beds and has not yet forsaken some adherence to this plan of growing roses, he desires to make some expression in defence of the system under discussion.

As Mr. May concedes that those who need summer roses may do well to grow them this way, no further reasons are needed to prove that as far as the production of roses is concerned, for spring and summer cutting those in the solid bed are much to be preferred to any grown in shallow benches, though by the majority of the large growers of the metropolis, the trade in summer roses is looked upon as something of no account, yet to many of us who are denied the New York market, good roses in summer are a feature of considerable value in our business. We have had to have them and if then they are a necessity, it certainly devolves upon every good business man needing them to have them in as good condition as possible. Growing them outside, as all very well know, is too uncertain in results.

But it is upon the winter production that Mr. M. decides so adversely against solid beds, giving us to understand that the comparison is infinitely to the advantage of the bench system.

No doubt if all growers follow the plan which the article implies that they do and grow their roses that are upon their benches with the maximum of care and allow those in solid beds to linger along as best they may with only spasmodic attention, then certainly roses in solid beds deserve no favor at any hands. The question though at once occurs, would not roses on benches also be failures if they only received the attention given by those who take life easy.

The fact is that roses always repay care, no matter by what system they are grown, and the maximum of attention bestowed upon those in solid beds, will be the means of reaping much success.

It is not claimed that this way of growing roses is the best, each may decide what his needs are and what plan is best adapted for his needs. Some varieties do better in solid beds than others.

Bon Silene, Perles and Niphotos thrive luxuriantly: Mermets, Brides and La France do not. We have a bed of Perles here that has been undisturbed for six years. It was supposed at the beginning of each year, that during the following summer the house would have to be re-planted, but when planting time arrived, the sacrifice seemed too great, and, therefore, these Perles are still growing, apparently more vigorous and producing more flowers than ever before. By all odds the finest Perles are cut from this house. And the opportunity for comparison is always at hand, as another house is planted with the same rose grown upon benches. Neither is the amount of winter production any less.

It is regretted that accurate figures are not available with which to verify this assertion, but the determination is formed to keep the product of each house separate for a year, and thus be enabled at some future date to state results with complete accuracy.

The writer remembers, two years back, seeing a house of Perles, grown by Mr. Messeberg, of Flatbush, L. I., and these, without exception, were by far the best Perles to be seen around New York at that time—both for quantity and quality. These were in solid beds, and had been there for eight years.

Mistakes are made with roses in solid beds by planting them in too much depth of soil. Twelve inches are ample, and the roses should always be fed from the top. Much care should be given to pruning away dead and useless wood, which has no other use than to harbor vermin. No other pruning through the fall and winter. If growth is robust (which should be if roses are grown well) some thinning of wood in the summer.

The greatest drawback to roses grown this way is the rose bug. If this procures a foothold, the only remedy is a persistent hand-picking can be made a successful way of clearing away the bugs, and thus enable the grower to retain his plants. ALFRED E. WHITTLE.

Albany, N. Y.

Seasonable Notes.

With the present season of cloudy, mild and wet weather extra care will be required to guard against mildew and black spot. The best way to avoid them is to give as much air as possible on all favorable opportunities, even on wet days; though quite mild it may be advisable at this season to keep the pipes just warm enough to admit of a free circulation of air. This will keep the plants in a healthy condition without forcing them into soft growth. Much of the success of the coming winter depends upon the way they are treated now. Of course many of the minute details of treatment must be left to the discretion of the grower as these must be varied to suit local conditions.

Water and air are two main necessities of plant life: when and how to apply them to the best advantage is the point for us to study out for ourselves. Next in importance is cleanliness; no plant will remain in good health for long if not kept clean, and this means that it must not only be kept free of insects, but also that all dead and decaying leaves should be removed as soon as possible, and all weeds kept pulled up, otherwise they will rob the plants of their proper nourishment; it is very poor policy to allow the weeds to grow among the plants till they have robbed the soil of half its virtue.

Many I know claim they have not time to keep them pulled up when small—it would be far cheaper to employ an extra boy to do it than allow them to grow.

Where the surface of the soil is getting a green scum over it, as many soils often do, it is best to choose a dry day with the soil slightly on the dry side and rub the surface over with the hand; many prefer to use a small rake for this purpose, but I prefer the hand as there is no danger of destroying any young roots by it, whereas the teeth of a rake often do considerable harm in this way. Let the soil remain as firm as possible after it is once pressed solid; should the light mulching put on earlier in the season become exhausted, another very light dressing would now help the plants to push stronger growth which means larger and finer flowers.

Hybrids wanted to bloom before Lent comes in should now be pruned and started without delay, providing of course that they have had a good season of rest and are in condition to prune. Remember that at this season it takes twelve weeks at least to get them into flower, that is, if really fine blooms are required. For those started earlier and which are now breaking nicely, a slight raise in the temperature every two weeks will help them to form and set their buds better. Give all the air possible on fine days, syringe frequently, and allow them to dry off by night. Should cloudy weather prevail withhold the syringing and keep the house slightly drier to prevent mildew.

JOHN N. MAY.

Number of Blooms Cut.

We present below another record of the average number of blooms cut from each plant of several varieties of roses during last season, kindly furnished us by an eastern grower who wishes his name withheld. It came a little too late to use with the others in last issue.

	Perles	Niphotos	Mermets	Brides
*Aug. 1889	3.67	2.69	1.76	.92
Sept. "	7.13	7.19	12.90	6.95
Oct. "	7.41	7.99	5.61	3.09
Nov. "	7.70	3.49	12.38	6.59
Dec. "	3.45	4.80	2.43	1.79
Jan. 1890	1.56	2.84	8.26	5.47
Feb. "	2.04	3.18	.57	.78
Mar. "	1.48	2.91	3.76	4.45
April "	4.02	5.38	6.28	3.74
May "	3.05	5.82	10.36	6.78
June "	2.17	4.76	3.80	2.34
Gen. av.	38.68	51.05	67.21	42.90
	Goultiers	S. d'Ami	La France	Realty
*Aug. 1889	2.30	3.55	2.39	
Sept. "	6.68	8.58	4.90	1.78
Oct. "	10.82	8.29	4.10	.88
Nov. "	8.43	3.57	2.11	.88
Dec. "	4.99	4.10	2.02	1.22
Jan. 1890	8.04	2.66	1.76	.97
Feb. "	3.07	3.57	1.37	1.26
Mar. "	6.50	2.63	1.65	1.28
April "	5.08	4.78	2.56	1.97
May "	7.12	3.02	2.73	1.15
June "	1.66	2.06	1.41	1.26
Gen. av.	64.69	46.74	27.00	12.59
*Aug 20 to 31.	June 1 to 20.			

The thirty-third annual meeting of the Missouri State Horticultural Society will be held at Clinton December 2 to 4.

The sum of \$2,000 will be awarded in premiums at the coming chrysanthemum show of the Pennsylvania Horticultural Society. Of this \$1,500 is offered by the society, the remainder by individuals as special premiums.



Seasonable Notes.

This is a good time to keep a sharp look out for insects of all kinds liable to attack the plants.

Last year for the first time I was greatly annoyed by a caterpillar which was lightly decorated with a black stripe down its back. This black stripe was flanked on both sides by stripes of yellowish green, which served to make the critter somewhat ornamental when full grown, and not being aware of their presence some of these gentry had attained considerable size before they were discovered.

It is best, however, to hunt them while yet small, as their demands for rations increase in proportion to their growth; when young they may be found low down in the plant, but they gradually work their way up the flower stem, eating as they go, and finally they attack the bud and entirely demolish its interior, by which time they will have attained an inch or more in length, and the parts of the plant over which they have traveled and eaten their way will present the appearance of having been struck by lightning. The only way to clear them off with certainty is to gather them in by hand.

Green fly is also a great nuisance if allowed to get a foothold on carnations. The young tender advancing flower shoots will soon be loaded with this pest unless means are used to prevent it. The best way to keep it down is to distribute tobacco stems about the house, and replenish as they appear to lose their strength; but should the green fly attain considerable of a foothold the best way will be to fumigate with tobacco stems quite moderately two or three times, after which the pest may be kept in check by the stems distributed in the ordinary way.

Red spider is not liable to attack carnations unless fire heat is used, and only then through gross neglect, as an occasional washing early in the day will effectually prevent their lodgment, but should red spider become thoroughly established on carnations there is nothing more effective in driving it off than one or two applications of air slacked lime liberally dusted on the plants and about the house where the pest holds the fort. When the lime dust is applied you can not exactly hear the red spiders sneeze, but if a close lookout is kept on them their antics in endeavoring to escape will be found quite amusing.

The depredations of slugs or snails is quite annoying and if left unchecked amounts in the aggregate to quite a considerable damage; their objective in the carnation house seems to be the flowers which they devour with great relish. I have generally been quite successful in keeping them in check by distributing the rinds of musk melons about the houses and outside; this is a bait they will travel quite a distance to secure, and if the matter is thoroughly attended to when the melons are in season but little annoyance will be suffered during the following winter. The way to operate is to place the melon rinds about during the day, and then at night visit them with a box of lime or a sharp stick and gather in the

crop; if this is repeated two or three times but very few will be left for winter use. I think Mr. McGowan's plan of turning wild land turtles loose into his houses is a good one; I intend asking him to train a few of them especially for my use.

The magnificent weather which now prevails is just the thing for carnations, take every advantage of it by throwing the houses wide open as long as it lasts, plenty of fresh air day and night is what they now want, and this coupled with thorough cleanliness will be found a very material assistance in the attainment of final success.

If some very early plants are needed of some special varieties or for particular purposes, no better time than the present will be found for putting in the cuttings; they will now root very readily and make fine strong plants for very early flowering.

H. E. CHITTY.

Paterson, N. J., Oct. 9, 1890.

NOTE.—On page 90 of the FLORIST, October 1, third column, second line from bottom the types make me say that I could not afford to grow the *Hume's*. While any longer on account of its habit of growing in crops. It was intended to read on account of its habit of *flowering* in crops.

Wire Supports.

If anyone who has used wire for supporting carnations or has seen it tried will give the result of their experience or observation to the readers of the FLORIST it will undoubtedly be of great practical benefit to many.

J. G. H.

Long Island Notes.

BY WM. FALCONER.

THE MOUNTAIN FLEECE is now in capital bloom and has been so since the end of September. Old stools that were not replanted last spring have not bloomed as well as have the young and freshly planted stock.

CANNAS IN WINTER.—Try a few of the finest large flowering, dwarf sorts in the greenhouse this winter. Thomas H. Ware and Madame Crozy are splendid varieties but scarce; by growing them in the greenhouse in winter, however, we are not only getting their handsome flowers, but the plants are increasing in growth, hence multiplying in stock. And the flowers of these dwarf cannas are brighter and more enduring when grown under glass than when outside, and they also escape the ravages of the spotted beetle.

FELIX CROUSSE as a red, Madame Just as an apricot, and Louis Thibaut as a yellow, are common enough, excellent in their way and very free blooming.

ARGYREIA TILLIFOLIA.—A seed novelty of last spring. It is a handsome, robust vine running 20 to 30 feet and bearing a ample number of large basswood-like leaves. But our plants, raised from seed last spring and planted outdoors in summer, have shown no inclination whatever to bear any blossoms.

PASSION FLOWERS.—We plant out a good many varieties in summer in good ground and warm sunny positions and they always grow well and flower well. *Passiflora edulis* and the variety *Arc-en-ciel* have shown a greater inclination to produce fruit than have any of the other ornamental kinds.

PASSIFLORA VIOLACEA.—Some years ago I had this new species from John Thorpe; it is a very beautiful, purplish-blue flowering kind from Brazil. The leaves are three-lobed (not 3-cleft) and the large

flowers hang down on long petioles and turn up at the end suggestive of a Dutchman's pipe. Although a thrifty plant it is not a rank grower, but it is a free blooming and very beautiful passion flower, and it thrives admirably planted out in summer. It has not fruited with us. We increase it from cuttings, but these do not root as readily as do those of most other kinds of these vines.

"OCCASIONAL," page 111, should speak to us oftener. We are hungry for just such facts; we want to know the plain truth about gladioluses and other popular horticultural plants. Let me endorse his remarks about gladiolus *Ville de Versailles*. Its habit is open and without any of the stiffness of a gladiolus of the *gandavensis* type and its white blossoms are real pretty. We call it the bouquet gladiolus, because we can use it appropriately mixed with other flowers.

MRS. DEGRAU ROSE.—About 5 per cent of our hardy roses are of this variety and I now (middle of October) am cutting more roses from it than from all of our other outdoor roses combined. It is in the way of *Hermosa* and has bright rose pink flowers that are produced the whole summer long, and are especially abundant in the fall. Of course as a market flower it would not compare with greenhouse grown stock, but for florists doing a local business and for amateurs it is a very desirable variety. It was raised some thirty years ago by J. Burgess, a florist of this village, and although it is well known and widely grown around here it does not seem to have got outside of this neighborhood.

I WENT to New York the other day to get some hardy trees and shrubs through the custom house and pay the 20 per cent duty imposed by the McKinley bill. And there I met an importer of bulbs who was bewailing his fate because he had received his full stock of bulbs before the 6th of October, and consequently had to pay the 20 per cent duty which, with a few days' delay he could have escaped. He got in his stock too soon, and I ours too late, so we both had to pay.

ABROMA AUGUSTA, an East Indian large leaved perennial of fast growth and a seed novelty last spring. It is used for planting out in summer for fine foliage, sub-tropical effect, in like manner as we use *Ferdinand*, *emend* or of which it is suggestive, or wigandia. Raised from seed last spring and planted out in good ground in summer it has grown about 6 feet high and is well furnished with large broad (20-24 inches across) reddish stemmed leaves. But it has not blossomed with us.

SOLANUM JASMINOIDES var. *grandiflorum* or *floribundum* as it is also called, has been in bloom out of doors all summer and now is more profuse than ever. Its clusters of white flowers are ample and real pretty and last well when cut, and a slight frost doesn't hurt it. We imported this variety from Veitch a few years ago, and while it is as free-blooming and vigorous as the ordinary *S. jasminoides* the flowers are whiter, larger and in bigger clusters. We winter the plants plunged or heeled in a deep cold frame, in this way they live quite well and keeps perfectly clean from the solanumite that preys so heavily on this plant, peppers, egg-plants and a good many other things, and which has almost driven the "melon pear" out of cultivation in the east.

COSMOS. We have not yet (Oct. 20th) had any frost and the cosmos is blooming beautifully out of doors. It is a welcome

flower at this time of the year. We also have lots of it in pots which we have just brought in, to be sold from frost, rain and windstorms. It doesn't matter whether we see it in March or June it comes into bloom now anyway, and for pot culture I like the late sowing best. Mr. A. W. Smith of Americus, Georgia, writes me that he has many flowers of Pearl that are $3\frac{1}{2}$ inches across, also, in some cases he finds that two flowers have grown together in one; this, on account of exuberance of growth is not uncommon in many compasses, and the fasciated stems of lilies and the like are induced in much the same way.

LOUIS SIEBRECHT of Queens used to have a couple of houses planted with Jack roses which he grew very well, but he says they didn't pay. So he has cleared out all of his roses and gone into growing carnations, chrysanthemums and the like more extensively than he used to.

BEGONIA INSIGNIS.—Mr. Siebrecht has taken up this begonia this year. It sold well in the New York market last December he tells me.

HE USED to have some large camellias planted out in one of his greenhouses, also a large Marechal Niel rose, but both have got thrown out, as they had ceased to be remunerative.

OUR OLD PLANTS of the Japanese maples have suffered more than usual this summer from the disease called "Japanese die-back." Half a tree or a large branch will die off unaccountably, leaving the balance of the tree apparently perfectly healthy. While quite common among old and large plants it seldom shows itself among young vigorous stock. But it is the great drawback to the free use of these lovely little bush-trees.

FLORAL PARK, N. Y.—John Lewis Childs, the florist, has received the republican nomination for Congress from the first Congressional district which includes all of Long Island (except Brooklyn) and Staten Island.

Philadelphia.

The first chrysanthemums of the season made their appearance on the 15th inst, the variety being *Gloriosum*; they were from disbudded plants, but were only fair and brought 60c a dozen wholesale.

A trip among the chrysanthemum men shows the various stocks to be in fine condition. Jacob Becker has some very fine pot grown plants with foliage to the bottom, in fact this seems to be the case with most of the stock seen. Robert Craig has a fine batch of seedlings, quite a number of which look very promising, he has made a specialty of the Mrs. Hardy and has a very large stock of this fine variety on benches, the flowers from these plants will certainly be very fine as they are in splendid condition and only one flower to a stem.

Mr. Harris has about the largest stock and they look exceedingly well; he has very fine batches of La Neige, L. Canning and Ivory, a fine white, the latter he thinks one of the best of its class and a grand pot plant for market. His fine yellow, Mrs. Wm. K. Harris, was considered a poor grower last season, but this year it has done as well as any, and will certainly have a place in every collection. His specimens for exhibition are the best he has ever had. We understand there are to be several private collections at the show which will take down anything ever exhibited here before.

Well, the bowling match came off and resulted as predicted, in the defeat of the professionals, or Boston team, as it is called here. They had some very fair bowlers on their side. Robert Craig kept up his reputation by making the best individual score, as he did at Boston, but some of the others did not show true championship form, and as a whole the team had to succumb.

The amateurs, their opponents, were hastily gotten together with but a little practice and acquitted themselves quite creditably. The professionals are not satisfied and will be forelong, that is after sufficient practice, meet their adversaries and prove their right to be called champions. Three games were played, the total score deciding the match.

THE SCORE.			
Amateurs.		Professionals.	
Colfesh	392	Craig	399
Anderson	376	Lonsdale	377
Kift	369	Burton	371
Heron	348	Young	337
Farson	330	Westcott	321
Campbell	328	Harris	299
2,147		2,104	

Resulting in the defeat of the professionals by 43 points.

John Thorpe read a paper on chrysanthemums at the monthly meeting of the Pennsylvania Hort. Society, Oct. 27. It was very well received by the large audience present, and the thanks of the society were unanimously tendered him.

Fine flowers of *Gloriosum* and other choice varieties are bringing \$50 a hundred in New York at wholesale and are in good demand. Thorley, of Broadway, arranged a basket with 33 blooms of Jessica, a fine white variety, for which he obtained \$100.

G. A. Milloy, formerly with Chas. E. Pennock, and F. Hunter, a retail florist, have organized the Philadelphia Wholesale Floral Co., at 17 North 13th street. They have quite a number of large consignors and are fully equipped for a good business.

John Burton has discarded the American Beauty in one of his houses, and replaced it with the Wootton. We understand that he heard something about this rose when in Boston, and resolved to give it another trial. Others heard of it also, it came to them as in a dream, or at least at a time when they should have been dreaming. By the way, Mr. Burton hopes soon to add the prefix "Hon." before his name, as he has been nominated and is now a candidate for the Legislature with good prospects of being elected.

The firm of Craig & Bro. has been dissolved. Robert Craig has purchased the interest of his brother George in the greenhouse department and will conduct the business as heretofore at 49th and Market streets, while the retail branch at 211 South Eleventh street has become the sole property of Mr. George Craig, and will be carried on in his name.

Many of the florists of this city are considerably agitated over a recent deal in coke, a fuel largely used by greenhouse men here. Some time since the Director of Public Works sold to a large coal tar firm 30,000 bushels of coke at 3 cents a bushel, whereas the florists had been paying 6 and 7 cents a bushel. Several weeks ago Mr. Robert Craig, the well known florist, called on the Director and expostulated with him in regard to the discrimination against the florists in the price charged. The Director retorted that he would sell at the 3 cent rate to any one who would take so large a quan-

tity as 30,000 bushels. Before the Director could catch his breath Mr. Craig ordered 30,000 bushels and planked down the money for it. An agreement was signed that the coke was to be taken in 30 days and that none was to be resold to other florists. Mr. Craig had his coke hauled away until he had 20,000 bushels and then the supply was exhausted. The other florists were clamoring for coke, but they could not get any because the Director was under contract to supply Mr. Craig with 10,000 bushels more. The situation is decidedly unpleasant for the other florists who use coke for fuel and they claim that by the sale noted a loss of at least \$900 has been caused to the city. The Director is in a peck of trouble and will probably think twice before he makes another bluff at a florist. Mr. Craig in the meanwhile looks on serenely holding his full hand-of-coke.

Florist Geo. W. Uher has begun suit for \$5,000 damages against a railroad contractor for damage done to his greenhouses and contents by the explosion of a blast of dynamite made by the contractor while constructing the roadway for a railroad near his place. The plaintiff states that over 2,700 lights of glass in his greenhouses were broken and many plants damaged or destroyed in consequence of the blast.

—The popular Eighth street florist, Eugene Weiss, who is also president of the Immortelle Design Co., took unto himself a bride October 22. It had been thought that Eugene was invulnerable to the darts of Cupid, but it seems as though he had been hit so hard that there was no other remedy than the ancient one—matrimony. A few evenings before the happy event took place some of his old friends called upon him to wish him God speed, and also to take part in aiding him to bid himself a beerful good bye to bachelordom!

Boston Notes.

Violets are improving. Roses of all kinds are unusually good for the season.

Chrysanthemums are beginning to come in in moderate quantities.

A new rose hailing from Boston is soon to make its appearance on the market.

In the present scarcity of carnations and other white flowers the large quantities of white cosmos now coming in are most welcome.

The first genuine freeze of the season occurred on the night of Tuesday Oct. 21. This settles the "outdoor stuff."

The flower store under the Tremont House formerly occupied by Loring & Co., has been re-opened by Mr. A. C. Bowditch, Associated with Mr. Bowditch is Mr. W. H. Long, who was for many years a prominent New York florist. With the knowledge these two gentlemen possess regarding the cut flower trade of Boston it would seem as though the success of the new enterprise was assured.

The annual public "giving away" of the geraniums and other bedding plants which have adorned the Public Garden during the summer, took place on October 24, and Superintendent Doogue with his assistants had, as usual, a lively job while it lasted. The stuff is worth having this time, for, as the visitors to Boston last summer probably noticed, the plants instead of being planted in the usual manner were all kept in the pots and plunged.

Mr. Wm. G. Paterson, who has been

for twelve years gardener to Hon. Frank Jones at Portsmouth, N. H., died on Thursday, October 9, aged 42 years. Mr. Paterson attended the convention at Boston and at that time complained of feeling unwell, but his fine physique and appearance of robust health seemed to contradict his assertions. Soon after the convention, however, the unwelcome news of his serious illness was received. He was a member of the Gardeners' and Florists' Club of Boston, and a great favorite with his fellow-members, a delegation of twelve of whom attended the funeral.

That such a number of gentlemen should go a distance of 60 miles for such a purpose is ample proof of the high esteem in which Mr. Paterson was held by his brother gardeners and florists. Straightforward, frank and manly in his manner, generous almost to a fault, he quickly found a large place in the hearts of those who met him. One of the highest tributes to his worth was the deep and sincere grief shown by his employer, Mr. Jones, and his good lady. The hospitality shown to the friends from Boston by Mr. Jones will never be forgotten. He personally met the delegation at the station with his own carriages, and treated them throughout with the greatest kindness. It was a most impressive sight to see the recognition and honor shown to the memory of the employe by the employer whom he had served so long and faithfully, and it was all the more touching on account of its rareness. Mr. Paterson was an accomplished gardener and the beautiful estate of Mr. Jones, which was almost a wilderness when he took hold of it, is a lasting memorial to his industry and skill.

W. J. S.

Chicago.

Mrs. H. H. Berger and daughter, of San Francisco, spent a day in Chicago recently while on the way home from the east, where they had been visiting since the Boston convention.

The members of the Wisconsin Gardeners' and Florists' Club have signified their intention of visiting the Chicago Florist Club's exhibition in a body on November 5.

J. C. Vaughan's greenhouses at Western Springs are in apple pie order, and are filled with excellent stock for the shipping trade. Several new buildings are being added and are being erected in a way to delight the hearts of those who believe in permanency. Among the plants noted at this place was a bench of the new white carnation Mrs. Fisher. It was not in bloom at the time, though covered with buds, but what attracted instant attention was the splendid habit of the plant. Several acres of dahlias, though already touched by frost, presented a brilliant appearance. Some of the single sorts should be very useful for cut flowers, especially the self-colored ones. Among the recent additions to the stock at this place is a fine lot of young palms and like decorative stuff of the usual trade sizes. The system of placing the ventilating apparatus on the outside of the roof in the narrow houses is worthy of note now that it has been demonstrated that the same works satisfactorily at all seasons of the year. Of course the only advantage lies in the fact that the head room is left free from the obstructions necessary when the apparatus is placed on the inside of the roof of narrow houses.

At the coming exhibition of the Florist Club the cut roses are to be judged by a scale of 100 points, as follows: Color,

35 points; size and texture of flowers, 30 points; length of stem and quality of foliage, 35 points; total, 100 points.

J. C. Vaughan is on a flying trip through the east.

At the last meeting of the Florist Club the annual election of officers was held with the following result: G. L. Grant, President; Joseph Curran, Vice-President; F. F. Benthley, Secretary; E. Weinhoeber, Treasurer; P. J. Hauswirth, Financial Secretary; T. J. Corbrey, Chas. Hartwig, F. Kennicot, Thomas Wallis and W. J. Smyth, Trustees. November 15 was set as the date for the annual banquet and a committee appointed to arrange for same.

The cash premiums offered at the exhibition of the Florist Club which occurs next week amount to \$1,500. The awards on floral arrangements will be made by a committee of twenty of the best known lady buyers and lovers of

New York.

Business is daily on the increase. Chrysanthemums have arrived in all their glory.

Violets are coming in in large quantities and are destined to be as popular as ever.

Carnations are plentiful and in good variety. One of the novelties is a whitish pink color named J. J. Harrison and grown by Bidwell Bros., of Jersey City, N. J.

Roses are plentiful and of better quality, but on account of the glut of chrysanthemums prices remain unsteady.

One of the prettiest designs seen in a Broadway window this season was a Marie Antoinette basket of Ma Capucine roses made by Lawrence Hafner of W. H. Brower's.

The most elaborate dinner order of the season was executed by Chas. A. Dards on the 20th at the Hotel Plaza. It was a dinner given to the Count of Paris by the officers of the Army of the Potomac. The table, in the form of a horseshoe, was literally covered with American Beauties with the words "Army of the Potomac" made in white chrysanthemums. The whole making one of the prettiest and most appropriate designs seen in years.

There has been some very extensive improvements made in many of the principal stores, and every one anticipates a good business this season.

There is a great deal of interest being taken in the Florists' Bowling Club, no doubt owing to the successes of the club at Buffalo and Boston. It is to be regretted that the harmony and good feeling that exists at these meetings does not extend to the stores and the rosaries.

Among our visitors during the week were J. M. Jordan, of St. Louis, Albert Small, of Washington, D. A. Spear, of Hartford, S. Goldring, of H. G. Eyres & Co., Albany.

JOHN YOUNG.

Philadelphia.

I have read with great interest the articles from Philadelphia written by A. B. C. D. and E., and I am one of our many florists who have wondered at the curious coincidence that each writer owns the initial in the alphabet that properly follows that of the writer of the preceding fortnight. They one and all seem to be real good fellows and have kept us well posted in what was going on in and around the Quaker city.

I would like, however, to correct a trifling error into which his exuberant spirits have led the genial E., the last of the quintet. He is evidently a thoroughly good chap and would not willingly hurt a fly, but his remarks on our bowling team are calculated to make our gallant captain sore.

It has never been claimed that our team comprised the six best players in town but that they had better averages than any of the other men who came to the practice games. That two of our bowlers rolled so wildly in beloved Boston was a bitter pill to our good captain, but surely E. will not for one moment criticise his selection? No, brother E., the lilliputians deserve great credit for their earnest practice and clever victory over the regular bowlers; but it wasn't a soft thing. No one says, "Hah, licked yer easy." No not even their leader in that joyful moment when the victory was won and his soda safe; and were a return match played, it is greatly to be feared that he would stamp his foot and shake his fist in anger at the final score. G.

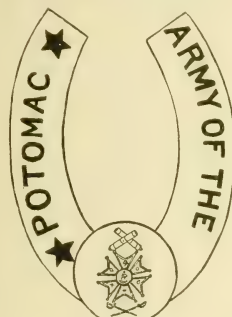


DIAGRAM OF TABLE DECORATION ARRANGED BY DARDS [SEE NEW YORK NOTES.]

flowers in Chicago, each one casting her ballot separately at the time most convenient within prescribed limits. This plan of selecting judges interests in the exhibition the very ones it is most desirable to interest, and as each one has a very considerable following in the fashionable world the material advantages are at once manifest. And who can be better judges of floral arrangements than those who annually expend very considerable sums with the florist and are known to love the flowers for their own sake and not simply because they are fashionable.

A meeting called to perfect the organization of the Horticultural Society of Chicago was held at the Sherman House October 14. It was intended to elect officers at the same meeting, but so much time was consumed in the consideration of constitution and by-laws that the election had to be postponed to an adjourned meeting held October 28. The society has been incorporated under the laws of the state and the directors for the first year are Messrs. Geo. Schneider, E. S. Dreyer, Gen. A. L. Chetlain, William H. Chadwick, J. C. Vaughan, W. H. Rand and E. B. McCagg. With the exception of Mr. Vaughan all are amateurs and all are blessed with an abundance of this world's goods as well as a love for the beautiful in nature.

Florist Reineiman, of Pittsburg, visited Chicago recently.

JUDGING BY POINTS.—As will be seen by items appearing elsewhere in this issue, the point system of judging plants and flowers at exhibitions is gaining ground. The system has so many advantages over the old method that we shall be surprised if it is not soon universally adopted. It not only simplifies the work of the judges and insures more accurate work on their part, but there is afforded to the competitors a decided satisfaction in knowing the exact degree of excellence of their entries as determined by the judges. We believe that it would be wise for those in charge of the numerous chrysanthemum shows which occur this month to adopt the point system of judging chrysanthemum plants which will be used by the Pennsylvania Hort. Society and which we print in our chrysanthemum department in this issue.

WE HAVE in hand and shall publish in next week's issue a very interesting paper read by Mr. John Thorpe before the Pennsylvania Horticultural Society October 21, on "The chrysanthemum, its western history."

ADVERTISERS should not forget that copy for advertisements must reach us by Monday at latest in order to secure insertion in the issue of the following Thursday.

MR. GEORGE W. CHILDS was unanimously re-nominated for the presidency of the Pennsylvania Hort. Society for 1891 at the October meeting.

WE SHALL NOW give you fifty-two numbers a year, instead of twenty-four, without any increase in price.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) per insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By one accustomed to forcing terms. H. care Am. Florist.

SITUATION WANTED—By a gardener and florist to take charge of greenhouses. Address: J. J. care American Florist, Chicago.

SITUATION WANTED—By a practical gardener on private place. German; age 30; married. CHARLES BICKEL, Highland, Ulster Co., N. Y.

SITUATION WANTED—As foreman or head-gardener by experienced man; competent in all branches. Box 94, N. Indianapolis, Ind.

SITUATION WANTED—By a gardener; understands roses, carnations, palms, ferns. Wages expected \$50. Address: A. care American Florist, Chicago.

SITUATION WANTED—As gardener or florist; private or commercial; 20 years' experience; good references. Address: WALTER J. BAILEY, 25 South Fourth Street, Harrisburg, Pa.

SITUATION WANTED—As gardener, by single man; six years' experience in large rose establishment. Private or commercial. Address: 81 Robinson Ave., Flushing, L. I., N. Y.

SITUATION WANTED—As gardener and florist; 16 years' experience, by a middle aged Englishman; single. Private or commercial. Address: G. KENNEY, Sioux Falls, South Dakota.

SITUATION WANTED—By a good florist and gardener; German; single; 30 years old, understands his business well. Address: GARDENIA, care T. W. Dixon, Harrogate and Nictown Lane, Phila.

SITUATION WANTED—By an energetic young man, who resigned his last place in one of the leading English nurseries, wages not so much an object as the right kind of experience. Address: BOOLE, Hacen, N. Y.

SITUATION WANTED—As florist; well up in the growing of orchids, roses and general greenhouse stock. Commercial preferred. Good references; married; no family. Address: J. B. care J. N. May, Summit, Union county, N. J.

SITUATION WANTED—By a German; 30 years of age; 9 years in this country; a position as foreman in any greenhouse establishment in or around Chicago. Good designer, propagator and rose grower. Best of references. Address: M. F. care American Florist, Chicago.

SITUATION WANTED—By a thoroughly competent man of twenty years experience in all kinds of growing; landscape gardening and every branch of horticultural work. Can give the best references from public institutions. Address, stating salary, T. care H. A. Drees, Philadelphia.

SITUATION WANTED—As foreman; a first-class N. plant, roses, palms, ferns, violets, and the forcing of all kinds of bulbs; a place where first-class stuff, with order and neatness is desired; 20 years' experience; single; first-class references. Address: N. care American Florist, Chicago.

WANTED—A good florist and gardener. Address: WILSON & Co., Shreveport, La.

WANTED—Gardener to fire steam boiler, also good greenhouse hand. HENRY MOORE, 14 Beale street, Memphis, Tenn.

FOR SALE—No. 7, brick-st. Furman steam boiler; will burn 700 lbs. of coal and deliver 1000 lbs. of steam one season; in perfect order. Address: H. E. BLAUVELT, Nyack, N. Y.

FOR SALE—One of the best retail florist stores in Chicago, well stocked and doing a good business; established 9 years, and located in a fine residence district. Owner wishes to go to Europe. Address: J. T. C. care American Florist.

FOR SALE—Florist business, thoroughly equipped and stocked. Doing a fine business at home and abroad. In a growing Ohio city. Must sell for good reasons. A good investment. Your home. The real estate for sale or lease to purchaser. Price \$3000. Address: BARGAIN, care Am. Florist.

FOR SALE—Residence of seven rooms, double greenhouse, each 10x30, office and packing room 10x32, well stocked; located in Holton, Kansas, country west of Jackson, Mo.; a good florist cannot help but succeed. Poor health makes me sell this fine change of climate. Address: Mrs. J. A. THOMAS, Holton, Kansas.

FOR SALE—A florist establishment, one greenhouse 75x18, and two 75x30 acres of good land, some wood and pasture, plenty of fruit, dwelling house and other out-buildings; good well and cistern. All buildings new and in good order. One hour from New York City, and one mile from depot. Price, \$4800, or will sell the greenhouse property separate for \$2200. Address: P. O. Box 103, Ramsey, N. J.

A WELL ESTABLISHED seed and nursery business, solicits correspondence from a first class seedman with capital, to whom they can assure a fine profit on investment and a guarantee of permanent position as traveling salesman at a good salary. None but first class man with capital need correspond. Address: BUSINESS, care Am. Florist.

WANTED, 300 CAMELLIAS.

Double White, Double Pink, and Double Variegated. Mailing lists. Address with price.

John A. Salzer Seed Co., La Crosse, Wis.

WANTED.

By an A No. 1, practical business man and florist, SITUATION, either as foreman, manager or will take working interest in some good establishment where ability and knowledge equals capital. Can give excellent references. None but good parties need reply. Address: COMPETENT, care Chicago Floral Co., Chicago.

COMPETENT, care Chicago Floral Co., Chicago.

Rooted Cuttings for Cash Buyers

CELEUS.

I can supply ten best varieties in any quantity. Also

GERANIUMS, ALTERNANTHERAS AND FUCHSIAS.

— SEND FOR PRICE LIST.—

S. B. FIELD,

ROSELLE, N. J.

Mention American Florist.

DOUBLE WHITE PRIMULAS.

From 3-inch pots, well rooted, \$10 and

\$15 per 100. Cash with order.

S. TAPLIN,

Fort St. West, DETROIT, MICH.

Mention American Florist.

FOR SALE.

Marie Louise plants, strong. A few hundred Carr, single blue, \$2.25 per 100. Several hundred Magnolia grandiflora, from 10 to 14 inches high, 2 years old, \$10.00 per 100. Also with orders for the above goods will receive prompt attention, at 10 per cent off.

Cash with orders for the above goods in exchange for a large lot of Eranthis Ravenne, Kalmia latifolia and other variegated grasses. Prices on application. M. THITSCHLER, Nashville, Tenn.

TO THE TRADE

The ASTORIA NURSERIES, ASTORIA, LONG ISLAND CITY, N. Y., still offer reductions in all stock, with 5 per cent discount on Cash in 30 days.

Per 100
FICUS, 4 feet high, \$1.25 each, suitable for propagating from.

1 ATANIA 2 to 4 in. pots..... \$4.00 and \$10.00

DRACENA INDIVISA, 3 in. pots..... 10.00

" " 20 in. high..... 20.00

ADIANTUM PUBESCENS, 5 in. pots..... 10.00

" " CUNEATUS, 2, 4 and 5 in. pots..... \$1.00, \$3.00 and 12.00

ONCHYDUM JAPONICUM, 2 in. pots..... 4.00

PTERIS HASTATA, 4 in. pots..... 6.00

HYDRANGEA OTAKA, 4 to 6 in. pots, \$6.00

LYGODIUM CANADENSIS, 4 in. pots..... 4.00

AMPELOPSIS VEITCHII, 4 in. pots..... 4.00

— ALSO —

ROSES, CAMELLIAS, IVY, HIBISCUS, PASSIFLORA, ORCHIDS, ETC.,

at Low Prices.

Goods delivered F. O. B. in New York. Careful attention given to all Orders.

ASTORIA NURSERIES,

Astoria, L. I. City, N. Y.

CARNATIONS

FIELD GROWN. LARGE, HEALTHY PLANTS. Per 100

Hinze's White..... \$ 6.00

Mrs. Garfield and Pres. Garfield..... 8.00

VIOLETS.

Clean, healthy stock NO BLACK SPOT.

Marie L. use and Swanley White..... \$ 5.00

Cyclamen, Seichin..... 5.00

Fibiscus in variety..... 4.00

Primula Obconica..... 3.00

Florida..... 3.00

Begonia Rex in variety..... \$5.00 and 8.00

Per doz.

Begonia Lucy Closson and C. L. Erdody..... \$ 2.00

Dianthus, 3-inch..... 3.00

Primula Obconica Seed, pkts. 1000 seeds, 75c.

I. N. KRAMER & SON,

MARION, IOWA.

CARNATIONS.

Strong 4 in. Strong 5 in. Per 100 Per 500

Portia..... \$ 6.00 \$ 9.00

Hinze's White..... 6.00 9.00

Chester Pride..... 6.00 9.00

Wm. Swayne..... 6.00 9.00

Century..... 7.00 10.00

Christmas..... 10.00 15.00

Primula Obconica, strong, 2 1/2-inch, 4.00

Geraniums, choice varieties, 3-inch, 3.50

Asparagus Tenuissimus, 2 1/2-inch, 4.00

Begonias, large stock, all sizes and vars.

Address N. S. GRIFITH,

JACKSON CO. INDEPENDENCE, MO.

(Independence is well located for shipping, being 8 miles east of Kansas City.)

CARNATIONS.

Field grown plants, ready in September and October. Also

VIOLETS.

Large clumps for forcing of MARIE LOUISE and SWANLEY WHITE. Send for order.

W. R. SHELMIER, Avondale, Pa.

Carnations and Violets.

PORTIA and HINZE'S WHITE, Per 100 \$5.00

MARIE LOUISE, perfectly healthy, 3.00

E. FRYER,

DELAWARE, O.

VIOLETS.

Per 100

3,000 Marie Louise, - - - \$2.00

1,000 Swanley White, - - - 2.00

Once transplanted, strong and healthy.

Cash with order.

G. W. CURRIE & CO., Nashville, Tenn.

Every reader of "The American Florist" is cordially invited to attend a unique Exhibition of

Chrysanthemums, Palms & Orchids,

— AT THE —

**UNITED STATES NURSERIES,
SHORT HILLS, N. J.
During the week beginning Nov. 3rd,
and ending Nov. 8th.**

Respectfully, **PITCHER & MANDA.**

Time Table D. L. & W. R. R.

Trains leave Christopher or Barclay Sts., New York, for Short Hills, 7:30, 8:40, 10:10, A. M.; 1:30, 2:30, 4:00, 4:30, P. M.
Leave Short Hills, 9:50, 10:20, 11:00, A. M.; 12:15, 1:44, 2:00, 5:00, 6:35, 8:34, P. M.

Choice Stock Cheap.

Dracena Indivisa, 4-inch.....	Per 100 \$10.00
Ampelopsis Veitchii, 3-inch.....	3 00
Latania Borbonica, 3-in., 1 year.....	8 00
Aspidistra Variegata, 5-inch.....	\$9 per doz.
Pandanus Veitchii, 4-inch.....	\$12 per doz.
ROSES from OPEN GROUND, Deliver in Dec.	
Jacqueminot.....	Per 100 \$70.00
Hermosa.....	60.00
Agrippina.....	60.00

**J. H. CAMPBELL & SONS,
3601 Germantown Ave., PHILADELPHIA, PA.
Mention American Florist.**

20,000 DEUTZIA GRACILIS

2 year old plants, very fine and Bushy, especially adapted for forcing.

No. 1, 1 to 1 1/2 ft., \$6 per 100.

No. 2, 8 to 12 in. \$4 per 100.

Send 10 cents for sample, also trade list with a full line of Nursery Stock.

**C. RIBSAM & SONS,
Trenton, N. J.**

Hydrangea Hortensis,
in 5-inch pots. Have been planted out during summer and potted in September.

Per hundred, \$12.00.

**BRAUER & RICHTER,
McCONNELLSVILLE, OHIO.**

MUST BE SOLD for want of room—about 5,000 FIELD-GROWN

CHRYSANTHEMUMS
of good size and the shape all styles and colors—mostly modern sorts, all finely budged. 1st selection \$8 per 100, 2d \$6, 3d \$4. Also 10,000 GIBSON'S SELECT HYBRID FANSEES for winter blooming, now ready. By express add per 100. By mail add per 100.

J. C. GIBSON, Woodbury, N. J.

DIRECTORY.

Every Florist, Nurseryman and Seedsman should have one.

AMERICAN FLORIST CO., Chicago.

CHRYSANTHEMUMS.

Stock plants now in flower and ready to deliver. We carry 600 varieties. A list of stock plants and prices will be sent you early in November. This is the time of year to buy Chrysanthemums for propagating—while in flower.

Average price of stock plants, 10 cents.

We offer for the first time, the EARLIEST Yellow Flowering Chrysanthemum,

"GOLDEN ALPHA,"

blooms as early as October Beauty. A good yellow four inches in diameter. Have been cutting flowers from these plants since October 1. Price \$2.00 per stock plant. For Spring delivery in March, \$10 per 100.

We call attention to the variety called "STONEWALL JACKSON" (Crystal Wave) as being absolutely one of the very best late flowering sorts for cut flower work.

Stonewall Jackson (Crystal Wave, Mrs. Potter).—Very pure satiny white, petals quite long; beautifully undulating; about 1/2-inch wide, same width from base to tip; shows center a little for a time, but petals soon cover it. Lasts remarkably after being cut. Stout plants, 50c.

**V. H. HALLOCK & SON,
QUEENS, N. Y.**

HYDRANGEA GRANDIFLORA.

We ask the attention of Dealers and the Trade to our Large Stock of HYDRANGEA GRANDIFLORA, nice, well-grown plants at very low prices, viz:

HYDRANGEA GRANDIFLORA, 2 year, 2 to 2 1/2 feet, strong. Price, \$7.00 per hundred; \$60.00 per thousand.

HYDRANGEA GRANDIFLORA, 2 year, second size, 18 to 24-in., good. Price, \$6.00 per hundred; \$50.00 per thousand.

Samples on application. Correspondence solicited.

Address **THE DINGEE & CONARD CO., WEST GROVE, PA.**

CHRISTMAS ROSES.

If you require fine clumps of home grown Christmas Roses, the large white flowering variety, full of flower buds, either for planting or forcing, order at once.

PRICES FROM \$7.25 TO \$24.00 PER HUNDRED.

— THE LARGEST STOCK IN THE WORLD TO SELECT FROM. —

Bulb catalogue and special prices free on application.

Cash with order or good references required from unknown correspondents.

**HERMAN BUDDENBORG,
WHOLESALE BULB GROWER,**

HILLEGOM, - HOLLAND.

Geo. Jackman & Son

Beg to offer a large and well grown

Stock of the following:

ROSES—In choice and exhibition varieties.

RHODODENDRONS—Of the best named sorts, and

Hybrid Seedlings well set with buds.

AZALEAS—Good named sorts, also Mollis and Poncinum set with buds.

CONIFERS—In large collection.

SHRUBS—Ornamental and Flowering.

FOREST TREES—Of sorts, all grown by thousands.

CLIMBERS—In variety, including their celebrated

Clematis.

STOCKS—Fruit and Manetti, fine.

Catalogues free on application.

TERMS—Cash with order, or satisfactory trade reference from unknown correspondents.

WORKING NURSERY.

WOKING, ENGLAND.

Mention American Florist.

KALMIA LATIFOLIA.

Plants of every size can be lifted with a small ball.

— BEAUTIFUL SEEDLINGS. —

2 years, very fine.....	Per 100 \$2.00
2 years, transplanted, very fine.....	11.00
2 years, very fine.....	14.00
3 years, transplanted, very fine.....	16.00
4 years, transplanted, very fine.....	19.00
5 years, transplanted, very fine.....	23.00
3 and 6 years, transplanted, extra.....	35.00
Small bushes, fine.....	50.00
Good bushes with buds.....	\$30.00
Same size without buds.....	17.00
Large bushes with buds.....	40.00
Same size without buds.....	34.00

Also extra fine RHODODENDRONS, large lot with or without buds; all sizes, at the most advantageous rates upon application.

HERBACEOUS PEONIES, fine assortment of colors, without names, at \$3 per 100; \$40 per 1000.

5,000 CLEMATIS, STRONG.

A full assortment of 1st class FRUIT STOCKS still on hand, all sizes; and General Nursery Stock, seeds of Pear and Apple, any quantity.

For any of the above, address

**ANDRE L. CAUSSE,
33 & 35 Liberty St., NEW YORK CITY.
or to LETELLIER & FILS,
CAEN, Calvados, FRANCE.**

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, 51.40; Column, \$14.00.
Cash with Order.**No Special Position Guaranteed.**Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
ware pertaining to those lines ONLY. Please to
remember it.Orders for less than one-half inch space not accepted.
Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A WEEKLY PAPER.Beginning with this number the AMERICAN
FLORIST will be issued weekly, and
there will be no increase in the subscrip-
tion price. It is with much pleasure we
announce that the hearty support given the
FLORIST by the whole trade has made this
change possible.With a weekly issue we shall be enabled to
keep our news close up to date, and as
the news feature is a prominent one with
us, the change will be a very material
advantage.We shall not stop at maintaining the
contents of the paper to the present
standard, but shall aim to not only in-
crease the quantity but improve the
quality as well.Another decided advantage will be the
frequency with which the rapidly changing
stock of the grower can be placed before
the trade and the better opportunity
which will be afforded to buyers of making
selections from the best stocks in the
market at that particular time. There
are seasons of the year when even the
daily changes in stocks are of very con-
siderable importance and in a week all
of some varieties may be exhausted. In
the weekly issue of the FLORIST the
advertiser can keep the changes in his stock
up to date, for the information of his
customers, and thus afford an advantage
to the buyer as well as stimulating trade.
It is unquestionably a decided advantage
to the buyer to have offers made up to
date and it is a like advantage to the
advertiser to be able to present to the trade
quickly any seasonable offers he may have
to make.**DEPARTMENTS AT THE WORLD'S FAIR.**The committee on classification has
after a great deal of labor prepared the
following fearfully and wonderfully con-
structed arrangement of "Bureaus" which
it will recommend for adoption by the
national commission:

- 1 Bureau of installation, which will include manufactures.
 - 2 Bureau of agriculture, with departments of live stock and horticulture.
 - 3 Bureau of mines and mining.
 - 4 Bureau of machinery and electricity.
 - 5 Bureau of education, covering engineering, public works, architecture, ethnology, archaeology, progress of labor and invention.
 - 6 Bureau of fine art, including decorative art.
 - 7 Bureau of railway exhibits and other means of transit.
 - 8 Bureau of admissions.
 - 9 Bureau of protection and public comfort, police, fire departments, etc., information to visitors, guides and interpreters.
 - 10 Bureau of publicity and promotion.
 - 11 Bureau of transportation.
- We give the whole list so that our

readers may see the relative importance
given to horticulture by the committee.
It is side tracked along with live stock
as sub-divisions of the Bureau of Agricul-
ture. Of course the classification given
may be very considerably modified by the
national commission before it is adopted,
but the chances appear somewhat slim as
to horticulture being given the position
to which it is entitled unless the attention
of the powers that be is forcibly called to
its importance.The classification submitted by the com-
mittee will be acted upon at a meeting of
the commission which will be held Nov-
ember 18, and any influence which may
be exerted should be brought to bear
prior to that date. We suggest that
every Horticultural Society, Florists'
Club and other organization interested
take action protesting against the classi-
fication noted and urge that horticulture
be made a department by itself, free from
the supervision of the director of any
other department, such communications
to be addressed to the World's Columbian
Commission, Pullman Building, Chicago.We trust that the horticultural press
generally will give full publicity to the
matter and urge immediate action by
those interested.**EARLY CHRYSANTHEMUMS.**On October 15 we received from Messrs
Nathan Smith & Son, Adrian, Mich.,
very good blooms of Chrysanthemums
James Salter, M. M. Thibaut, M. E.
Nichols (October Beauty), Blanc Precocé,
Charlotte de Mont Cabrier, Pres. Hyde,
Harvest Queen, Duke of Berwick, Mac-
beth and Spiralis.On October 20, Mr. O. P. Bassett,
Hinsdale Ill. sent us a handsome plant of
Puritan in splendid bloom, and the fol-
lowing day we received from the same
gentleman really excellent blooms of
Gloriosum, Puritan, Edwin Molyneux,
Jessica, an unknown white and Mrs.
Alpheus Hardy.On the same day we received a basket
of blooms of new varieties from Messrs
Hill & Co., Richmond, Ind., which are
enumerated in another column. Among
these blooms were many which may be
of value to the seeker after odd colors
but the only ones that impressed us favor-
ably were Mme Ferdinand Bergman and
M. H. de Portanier.**TO ADVERTISERS.**With the change from a semi-monthly
to a weekly, the number of issues during
the year will be something more than
doubled, enabling advertisers to reach the
trade 52 times a year instead of 24 as
heretofore.The advertising rate will remain the
same for a single insertion and an addi-
tional discount will be given on time
contracts owing to the greater number
of issues during the year.In the future the discounts will be as
follows: For advertisements ordered for
6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per
cent. The discounts are for consecutive
insertions only.QUITE a number of changes have been
made in the dates for the coming chrys-
anthemum shows. See elsewhere in this
issue a list of the coming exhibitions with
changes made up to date.THE AMERICAN FLORIST was started as
a trade paper; it has remained strictly a
trade paper and will continue as a trade
paper only.**FIVE NEW AMERICAN ROSES**Probably the most interesting Novelties of the
coming season and those that will attract the widest
attention of the Trade on both sides of the water,
are our**NEW AMERICAN SEEDLING ROSES,**HENRY M. STANLEY,
MRS. JESSIE FREMONT,
MAUD LITTLE,
PEARL FIVE O'CLOCK,
GOLDEN GATE.Five New Teas of Sterling Merit, origina-
lized, grown, and tested in this country, and sent out
for their merits at reasonable rates. Orders can be
booked now, and will be filled in rotation as received.
April next. Full particulars ready Jan. 1, 1900.
Prices, \$1 each; set of 5 for \$5; two of each, 10, for
\$9; five of each, 25, for \$20.

ADDRESS THE DINGEE & CONARD CO.,

Rose Growers, West Grove, Pa.

**ROSES
FOR IMMEDIATE PLANTING**

	2-inch.
Duchess of Albany.....	\$12.00
Mme. Hoste.....	7.00
La France.....	5.00
Gontiers.....	4.00
Neples.....	4.00
Niphotos.....	4.00
Mermets.....	4.00
Brides.....	4.00
Bon Silenes.....	4.00
Gen'l Jack, 2-in. \$40 per 1000; 3-in. \$5.00 per 100.	
H. Perpetual, 40 var. 2-in. \$50.00 per 1000.	

SEND FOR LIST.

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.**MARDY * ROSES
— FOR —
FORCING.**Strong dormant plants, grown one year
in the open ground.PAUL NEYRON, DIESBACH, MAGNA
CHARTA, JACQUEMINOT,
and others, 2 ft. high, price \$12.00 per 100; also
MME. LUZET, strong, budded plants,
2½ to 3 feet of wood, extra fine plants,
\$22.50 per 100.ADDRESS W. S. LITTLE,
COMMERCIAL NURSERIES, ROCHESTER, N. Y.**ROSES.**Perles, Mermets, Cooks, Brides, & Souv.
d'au. Strong plants, 3-in. \$7.00
Hybrid Perpetuals, open ground, \$8 & 10.00
Eandy Climbers, open ground, \$5.00
Teas, from open ground, \$4 & 6.00
Anapelsa Vetchil, strong plants, \$8.00
Ede. Begonia, fine varieties, \$8.00**CARNATIONS.**
Hize's White, Orient, Ailegater, Flor-
ence, strong, field grown plants:
1st size, \$7.00
2nd size, \$6.00
Chancellor, new varieties, \$8.00
VERBENAS, one stock. Correspondence solici-
tated.**WOOD BROTHERS,**
(Successors to I. C. WOOD & BRO.) FISKILL, N. Y.**ROSES.**A very large stock of young Roses of the lead-
ing bedding and forcing varieties. Also large
stock of same in 5 and 6-inch pots.
The best and newest of CHRYSANTHEMUMS,
CARNATIONS and general greenhouse stock.
Trade list mailed on application.JACOB SCHULZ,
Louisville, Ky.**IMPORTED H. P. ROSES,**Worked low on the Manettin Stock, offer the best re-
sults to the florist, blooming freely and giving plenty
of cuttings for propagating quickly. Fine plants
for sale by the 100 or 1000, at low rates.
Price lists to applicants. AddressWILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

T.MOS. YOUNG, JR.,
WHOLESALE FLORIST
 20 West 24th Street,
NEW YORK.

LILY OF THE VALLEY,
 And the Choicest **ROSES** for the
 fall and winter season.

W. S. ALLEN,
WHOLESALE DEALER IN CUT FLOWERS,
 36 EAST 23rd STREET, NEW YORK.
 ESTABLISHED 1877.
 Price List sent upon application.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
 No. 32 W. 30TH ST., NEW YORK.
 Orders to be shipped will receive prompt attention.

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WHOLESALE DEALERS IN
CUT FLOWERS,
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GEO. MULLEN,
WHOLESALE FLORIST,
Florists' Supplies Always in Stock.
 17 CHAPMAN PLACE,
 (Opp School St., near Parker House).

BOSTON MASS.
 Orders by Mail, Telegraph, or Express
 promptly filled.

W. A. JURGENS,
WHOLESALE FLORIST

27 Union Square, NEW YORK.
JOHN YOUNG,
WHOLESALE FLORIST
 56 WEST 30TH STREET,
NEW YORK.

ROSES
FOR WINTER BLOOMING.
 10,000 healthy Roses from 4-inch pots, consisting of
 Mermets, Brides, Perles, Cousins,
 Souv. de Wootton, Papa Gontier,
 La France and Niphotos,
 at \$10.00 per 100.
 Bon Silene and Safrano, \$8 per 100.
 Also 10,000 SMILAX from 2 1/4-in. pots,
 at \$4.00 per 100.

JAMES HORAN, BRIDGEPORT, CONN.

10,000 General Jacq. Rose Plants,
 one and two year old.
 Extra large two year old, \$20.00 per 100.
 " fine one year old, 3 ft. and up, \$15.
 " fine one year old, 2 to 3 feet \$10.
JORDAN FLORAL CO.,
 706 Olive Street, ST. LOUIS, MO.

©Wholesale Markets.

Cut Flowers.

BOSTON, Oct. 25.	
Roses, Bon Silene.....	\$1.50
" Gontiers.....	2.00 @ 3.00
" Niphotos.....	1.00 @ 1.50
" Perles, Sunsets.....	4.00 @ 5.00
" Mermets, Brides.....	4.00 @ 5.00
" La France, Hoste, Watteville.....	8.00
" Wootton.....	8.00
" Beauty.....	15.00 @ 20.00
Carnations, short.....	1.00
Carnations, long.....	2.00
" Valley.....	6.00
" Violets.....	.50 @ .75
Tuberose.....	1.00
Anemone Japonica.....	1.00
Cosmos.....	1.00
Chrysanthemums, common.....	1.00 @ 2.00
Chrysanthemums, fancy.....	12.00 @ 15.00
Smilax.....	12.50
Adiantum.....	1.00
Asparagus plumosus.....	30.00

PHILADELPHIA Oct. 25.	
Roses, Beauties.....	10.00 @ 15.00
" Perles, Niphotos.....	5.00
" Albany.....	5.00 @ 6.00
" La France.....	1.00 @ 5.00
" Mermets, Brides.....	4.00
" Pierre Guillots.....	5.00
" Gontier.....	2.00
" Wootton.....	4.00 @ 5.00
" Cousins, Watteville.....	2.00
" Hostes.....	3.00 @ 4.00
Carnations, long.....	1.00 @ 1.50
Carnations, short.....	.75 @ 1.00
Smilax.....	30.00
Adiantum.....	1.00
" Valley.....	8.00
" Violets, double.....	.25 @ .35
Bouvardia and Heliotrope.....	1.00 @ 1.50
Chrysanthemums.....	1.00 @ 20.00

NEW YORK Oct. 25.	
Roses, Bon Silene.....	\$1.00 @ \$1.50
" Gontiers.....	2.00 @ 3.00
" Perles, Niphotos.....	2.00 @ 3.00
" Souv. de Wootton.....	2.00 @ 3.00
" Watteville, Cousins.....	3.00 @ 4.00
" Mermets, Brides.....	4.00 @ 5.00
" La France, Albany.....	4.00 @ 5.00
" Bennetts.....	3.00 @ 6.00
" Hoste.....	3.00 @ 4.00
" Beauties.....	15.00 @ 20.00
" Valley.....	15.00 @ 20.00
Smilax.....	1.00
Carnations, long.....	1.00
Carnations, long, white.....	1.50
Adiantums.....	1.00 @ 1.50
Asparagus.....	25.00
Bouvardia.....	1.50 @ 2.00
Mignonette.....	1.50 @ 2.00
Violets.....	1.00 @ 1.25
Chrysanthemums, fancy.....	15.00 @ 25.00
Trade much better than at last year.	

CHICAGO Oct. 27.	
Roses, Perles, Niphotos.....	\$1.00 @ \$5.00
" Gontiers.....	2.00 @ 3.00
" Bon Silenes.....	1.00 @ 2.00
" Mermets, La France.....	1.00 @ 2.00
" Brides.....	3.00 @ 6.00
" Am. Beauties.....	10.00 @ 15.00
" Bennetts.....	4.00 @ 5.00
" Albany.....	6.00 @ 7.00
Carnations, short.....	1.00 @ 2.00
Carnations, long.....	1.00 @ 3.00
Smilax.....	15.00 @ 20.00
Tuberose.....	1.00 @ 1.50
Adiantums.....	1.00 @ 1.25

WM. J. STEWART,
Cut Flowers & Florists' Supplies
 ——— WHOLESALE ———
 67 BROMFIELD ST., BOSTON, MASS.

EDWARD C. HORAN,
 34 W. 29th St., NEW YORK.

Having removed to more spacious quarters (next door) with increased resources and facilities I am now prepared to furnish at short notice and in any quantity, selected Roses of every variety, also all other flowers in market.

Roses to be shipped are especially selected, and packed under personal supervision.

SPECIALTIES:

American Beauty, La France, The Bride, Mermets, Mme. Hoste, Duchess of Albany.

Return telegrams sent when orders or part of them cannot be filled.

WELCH BROS.,
WHOLESALE FLORISTS.

165 Tremont Street, BOSTON, MASS.
 We make a specialty of shipping choice Roses and other flowers, carefully packed, to all points in Western and Middle States.
 Return Telegram is sent immediately when it is impossible to fill your order.

E. H. HUNT,
WHOLESALE FLORIST
 79 Lake Street, CHICAGO,
 (Successor to Vaughan's Cut Flower Dep't.).
All Flowers in Season.
 Full line of **FLORISTS' SUPPLIES.**

KENNICOTT BROS.
WHOLESALE FLORISTS,
 27 Washington Street, CHICAGO.
 All Cut Flowers in season. Orders promptly shipped.
 Store open until 9 P. M. Sundays until 2 P. M.
ALL SUPPLIES. \$20 WIRE WORK A SPECIALTY.

C. H. FISK,
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
 116 Dearborn Street, CHICAGO.

OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK

FRESE & GRENSEN,
 (Successors to O. W. FRESE.)
Wholesale Dealers in
CUT FLOWERS,
 And Florists' Supplies.
 89 Wabash Ave., CHICAGO.
 Store Open: Nights 9 P. M.; Sundays 2 P. M.

LaRoche & Stahl,
Florists & Commission Merchants

—OF—
CUT FLOWERS,
 1237 Chestnut Street, PHILADELPHIA.
 Consignments Solicited. Special attention paid to shipping. Mention AMERICAN FLORIST.

CHAS. E. PENNOCK,
WHOLESALE FLORIST
 38 So. 16th Street, Philadelphia, Pa.

JOHN M. HUDSON,
 —WHOLESALE—
Commission Dealer in Cut Flowers,
 1225 Market St., ST. LOUIS, MO.
 Quick sales and prompt returns guaranteed. Consignments solicited.

J. M. McCULLOUGH'S SONS,
 Wholesale Commission Dealers in
CUT FLOWERS
 134 & 136 Walnut Street, CINCINNATI, O.
SPECIALTIES:
Prize Chrysanthemums and Orchids:

CUT FLOWERS.
 The choicest Cut Flowers, of our own growing, at lowest market rates, shipped C. O. D. Use A. F. Code when ordering by telegraph. Telephone connections. For prices, etc., address
J. L. DILLON, BLOOMSBURG, PA.

Ampelopsis Veitchii.
 Strong 2 1/2-inch pots, \$3.00 per 100;
Jack Roses.
 3 1/2-inch pots, \$8 per 100; \$70 per 1000.
 Address **J. G. BURROW,**
PISCATAWAY, N. Y.
 Mention American Florist.

The Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. MCCULLOUGH, Cincinnati, president, JOHN FORTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1894.

BOUK & HUPERT succeed Jas. W. Bouk, Greenwood, Neb.

COLE & BRO., B. M. Cole, proprietor, Pella, Iowa, will change the name of their concern to Cole's Seed Store.

QUITE a gathering of seedsmen were present at the St. Louis Fair; besides the local people were present Mr. F. Barteldes, Phil Stimmel, R. G. Craig, Geo. S. Haskell, S. P. Leonard and J. C. Vaughan.

LILUM AURATUM to arrive next month from Japan will be entered free of duty, under the new law. Rumor has it that some 50,000 bulbs in the early shipments arrived here worthless, having rotted from being packed in sawdust instead of the usual clay.

MR. GEO. URGHART, Vice-President of the Plant Seed Co., a good authority on onion sets, reports a two-thirds crop in the U. S. this season. Most of the stock is yet in the hands of growers who fear they may sell too low; he expects a cold wave later on will bring buyers and sellers nearer together.

PHILADELPHIA.—Mr. W. Atle Burpee has moved into the city for the winter from his summer place at Doylestown. Mr. Maule says it is a poor year for "novelties" in the seed trade, but helps others in the trade to give Mr. Blane more new engraving than he can do. The *Public Ledger* expects a blue chrysanthemum at the coming show.

Report From Erfurt, Germany, on Seed Crops.

Stocks will be a good crop. Asters promise to yield a good seed, but crop will be short. Of novelties introduced recently *Scabiosa* snowball, *Aster* Ne plus ultra and *Lobelia* Royal Purple are good. Double cornflower of little use to florists. Victoria ten week stocks are good. Eckford's new sweet peas yielded but very little. Cauliflower extra good. On the whole it is somewhat early since many seeds, such as asters, verbenas, etc. are subject to weather. C. C.

Palms and Dracenas.

LATANIA BORBONICA, 3 in. pots, strong, 15c each. CHAMEROPS EXCELSA, 2 in. pots, strong plants, 25c; 2 in. pots, small, 6c.

CORYPHA AUSTRALIS, 2-inch pots, 8c. WASHINGTONIA ROBUSTA, 4-inch pots, 25c; 3-inch pots 15c, 10 to 15 other varieties in 5 to 10 and 12 in. pots, some good specimens at low down prices. Over 100 CYCAS REVOLUTA, from \$1.00 to \$8.00 and \$12.00, according to size.

DRAECENA TERMINALIS, 5 in. pots, strong plants, 15c; 4 in. pots 20c; 3 in. pots 12c; 2 in. pots 5c. DRAECENA INDIVISA, 5 in. pots, strong plants 35c; 4 in. pots 20c; 3 in. pots 12c; 2 in. pots 5c per 100.

Send me your orders, I feel sure I can give satisfaction.

W. J. HESSER, PLATTSOUTH, NEB.

FARLEYENSE

Good strong plants, in 4-inch pots, \$50.00.....per 100.

FISHER BROS. & CO., MONTVALE, MASS.

HERBACEOUS PLANTS.

ROSE HILL NURSERIES,
New Rochelle, N. Y.

SIEBRECHT & WADLEY.

FERNS. PALMS.

40,000
Fern Seedlings, in the following varieties, at \$5.00 per 100, from 2 1/2-inch pots.
ADIANTUM PTERIS TREMULA, ARGYREA, SERRULATA var. GRACILLIMUM. Per doz. Per 100
LATANIA BORBONICA, 4-inch pots, \$3.00 \$25.00
" 3-inch pots, 1.50 15.00
" 6-inch pots, 1.00 10.00
PANDANUS UTILIS, 6-inch pots, 9.00

Also a large stock of MUSA SUMATRANA, the best of all var. Bananas, \$1.00 each; \$50.00 per 100. Address

GEO. WITTBOLD, School & Halsted Sts., LAKE VIEW, CHICAGO.

Flower Novelties.

My this year's List of Novelties is now ready and to be had FREE on application.

Martin Grashoff,

Wholesale Seed Grower and Merchant in Vegetable, Garden and Flower Seeds, etc. QUELINBURG, GERMANY.

DANISH CAULIFLOWER SEED

Gives in fact the very best results. Extra Early DWARF ERFURT, and Earliest DWARF SNOWBALL, the most profitable two sorts for forcing, true to name and first quality, own home grown seed. For prices, samples and further information, apply to CARL FRISENETTE, Seed Grower, 4 Svanholmssvej, COPENHAGEN, D. C.

G. J. MOFFATT, Manufacturer of SEED BAGS ENVELOPES OF ALL KINDS. Printing a Specialty. NEW HAVEN, CONN. Samples and Prices on Application.

HENRY METTE, Seed Grower and Merchant, QUEDLINBURG, GERMANY. (Established 1787.)

Wholesale Catalogue free on application. Special low prices given for large quantities.

Want of room is why I sell Primroses for \$5.00 per 100. Fine assortment for cash. In 4 inch pots.

Address W. B. GOODRIDGE, Florist, Westfield, New Jersey.

IMMENSE STOCK OF

PALMS,
ORCHIDS,
FERN.

NEW AND RARE PLANTS.

SIEBRECHT & WADLEY.

ORCHIDS! ORCHIDS!
Lowest Prices Ever Offered.

Send for special prices of SURPLUS STOCK which must be sold now. Established 1854. BRACKENRIDGE & CO., Govanstown, (Baltimore), Md.

A. LIETZE, P. O. Box 644 RIO DE JANEIRO. PALM SEEDS, ORCHIDS, NEW CALADIUMS.

For price list apply to Messrs. ADOLPH W. ESSEN & CO., Gr. Reichenstrasse, 73, Hamburg, Germany.

JAPANESE PLANTS,

Trees, Shrubs, Bulbs, Seeds, Etc. offered at low prices by

FELIX GONZALEZ & CO. Direct Importers and Exporters, 303 to 312 Wayne and Crescent Ave., SAN FRANCISCO, CAL.

Wholesale Catalogue mailed free on application.

ORCHIDS.

NEW AND RARE PLANTS, ETC.

A very extensive stock of Orchids: EAST INDIAN, MEXICAN, CENTRAL & SOUTH AMERICAN, etc. PITCHER PLANTS, a large collection. NEW AND RARE HOTHOUSE AND GREENHOUSE PLANTS, carefully grown at lowest rates. Finest Winter Blooming Roses, Clematis, Dutch Bulbs, Fruit and Ornamental Trees. Catalogues on application. JOHN S. L. Washington, D. C.

TRY DREER'S GARDEN SEEDS Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only. HENRY A. DREER, Philadelphia

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK: 25,000 Dwarf budded Roses in sorts, 3,000 Rhododendrons in sorts.

3,000 Azalea Mollis and Ponica in sorts. 2,000 Clematis, extra strong plants. Trees, Shrubs, Evergreens, Conifers, Paeonias and other herbaceous plants.

PLANTS FOR FORCING AND DECORATING.

Address P. OUWERKERK, P. O. Box 1845, NEW YORK CITY. Catalogue on application.

TUBEROUS ROOTED BEGONIAS.

LYCOPodium and HOLLY.

ORDER NOW YOUR SUPPLY FOR HOLIDAY TRADE.

Of these we have secured a large and Choice Stock, on which we will make lowest prices.

Write for quotations on quantity you may require.

EVERGREEN WREATHING and HOLLY WREATHS, ready for immediate shipment in season.

We offer also: **TUBEROSES**, ready November 15. **SPIRÆA JAPONICA**, large clumps. **LILY OF THE VALLEY**, selected pips. **SPHAGNUM MOSS**, clean, for florists' use.

W. W. BARNARD & CO.,

Successors to HIRAM SIBLEY & CO., at Chicago,

6 & 8 North Clark Street, CHICAGO, ILL.

CHRISTMAS TREES

DECORATIVE GOODS, ETC.

Personally selected, extra fine Balsam and Spruce, f.o.b. here:

4 to 5 ft. 10c. 5 to 6 ft. 14c. 6 ft. 18c. 7 ft. 21c. 8 ft. 25c. 10 ft. 35c. 12 ft. 50c. 14 ft. 65c. 5 per cent. off in 50. 10 per cent. off in 100, 15 per cent. off in 200 tree lots.

Trailing Pines, \$1.00.
Bouquet Green, \$5.00 per 100 lbs.
Arbor Vite Trimmings, \$1.50 per bbl.; 5 bbls. \$7.00.
Mixed Trimmings, \$1.00 per bbl.; 5 bbls. \$4.50.
Fine Rooted Fesc, \$1.50 per bbl.; 5 bbls. \$7.50.
Moss, \$1.75 per bale; 5 bales \$8.00.
5 per cent. off on all orders received before Nov. 25.

Best of shipping facilities: four through roads.
Send for Telegraph Code. Write or write for estimates before you buy. Bank references required.

JOSEPH BANCROFT,
Cedar Falls, Iowa.

Now Ready, for Cash.

Per 100
Begonia Bruanti alba, best white,
winter bloomers, 2½-inch, - \$ 6.00
same, 3-inch, - 10.00
Begonia Metcalica, 2½-inch, - 10.00
" 3½-inch, - 12.00
" Semperflorens rosea, 2½ in. 6.00
" 4-in. 12.00
Abutilon Eclipse, 2½-inch, - 5.00
Manettia bicolor, 2½-inch, - 7.00
" 3-inch, - 11.00
Agapanthus, 3½ and 4-inch, - 8.00

Large thrifty stock in fine shape, ready to shift.

Lane's Mountain View Greenhouses,
RUTLAND, VT.

PANSIES

ONLY
ONLY
ONLY
The grandest Collection ever offered, including all the Latest Novelties. Our seeds are warranted to be fresh, pure, and strictly first-class in every respect. Send for New Circular and Price List to the Trade.

ALBERT BENZ, DOUGLASTON, N. Y.

PANSIES.

THE JENNINGS STRAIN.

Extra large flowering and splendid colors. Only 20,000 left. Fine plants \$5 per 1000; 50c. per 100. Seed in paper of 3000, \$1.00 packet. A few hundred Carnations left, assorted varieties, will sell for \$2.50 per 100.

E. B. JENNINGS, box 76, Southporth, Conn.
CARNATION, PANSY and VIOLET GROWER.

CHRISTMAS EVERGREENS.

TO THE TRADE.
Holly, 1000 per 1000, per bbl. \$2.50
Mistletoe, 1000 per 1000, per bbl. \$3.00
English Ivy, 1000 per 1000, per bbl. \$3.50
Cut flowers in season. Violets a specialty.
MRS. F. A. GRANTHAM, Vaiden, Miss.

HEADQUARTERS for CHRISTMAS TREES!

Wisconsin Blue Spruce.

The finest of all in form and color. Well furnished, selected trees, carefully packed in light, strong crates, containing 25, 50 and 100 trees, delivered, Freight Charges Paid to any point within 300 miles of Chicago, at prices here quoted:

	25	50	100
4 to 6 feet.....	\$ 3.50	\$ 6.00	\$10.00
6 to 8 feet.....	6.00	11.00	20.00
8 to 10 feet.....	10.00	18.00	30.00
10 to 12 feet.....	15.00	25.00	45.00
12 to 14 feet.....	20.00	35.00	60.00

The two largest sizes are of Balsam Fir; fine selected specimens.

Special correspondence solicited on car lots.

As the Western Classification of roads now exact, by a recent ruling, **ACTUAL PREPAYMENT** of all freight charges on Christmas Trees, I am obliged to assume these charges, and also all risks of transportation; hence I am under the necessity of insisting upon the following:

TERMS OF PAYMENT.—At least one-half cash with order; balance 30 days approved credit. All bills to be paid not later than January 1st 1891. No attention will be paid to orders not complying with above terms.

W. D. BOYNTON, SHIOCTON, WISCONSIN.

Rooted Cuttings.

My circular and price list is now ready, and can be had on application; it is interesting reading to any florist who buys Carnations, Coleus, Al. erantneras, Geraniums, Cannas, etc.

Pansies.

One day's mail brought me orders for 18,200, and one week's mail for 37,500 plants. Is it any wonder I am sold out? This year's sales prove conclusively that there is no better strain in the market. And next season I shall grow not less than half a million plants.

L. E. 338. ALBERT M. HERR, LANCASTER, PA.

ROSES AND PLANTS.

WE OFFER FROM OPEN GROUND STRONG PLANTS OR CLUMPS:

Per 100
Eulalia gracillima..... \$10.00
" zebra..... 8.00
Dianthus, Snow..... 8.00
" plumarius, in colors..... 8.00
Burr Rose (pink macrophylla)..... 8.00
Climbing Roses, assorted..... 8.00
Ligustrum, 2 sorts, excellent hedge plants..... 8.00
Young Roses, in 2 in. pots, best of sorts, our selection, \$35.00 per 1000.
Bedding plants in most complete and select assortments at lowest prices.

SEND LISTS TO BE PRICED. CATALOGUES FREE.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

VERBENAS.

20 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$25
Rooted Cuttings of same, 100 \$1; 1000 \$9.
Fine stock Heliotrope, 2½ in. \$3 per 100.
Double Fringed Petunias, 12 vars. 2½-in. \$4.00 per 100.
Adiantum Cuneatum, Decrum and Gracillimum, 5-inch, strong, \$15 per 100.
Primroses, double, per 100 \$12.00, single, per 100 \$5.00.
Oenothera, per 100 \$5.00.
Geraniums—latest Novelties.
Latania borbonica, 5-in. \$4.00, 4-in. \$3.00 per dozen.
Miscellaneous stock of all kinds.

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.

Washington.

Cosmos has been the reigning belle during the past week, everywhere is this new comer to be found. The markets are full of them and they grace every florist's window in the city, but the reign is short, trendy chrysanthemums are putting in an appearance and before another week we will witness the beginning of a chrysanthemum display such as perhaps has never been seen here, to judge from the profusion of buds, magnificence of plants and endless variety.

Foliage plants, especially palms and ferns, seem to have received special attention by some of our more successful growers during the past season and the winter's supply, it would seem, will fully equal the demand which in this city is exceptionally large.

The question of allowing the florists to remain on the ground floor of the Center Market seems to have been definitely settled and several have enlarged their setbacks, provided tiled counters, telephones, etc., so that the floral feature of our largest market is now really one of its greatest attractions.

The cut flower trade is evidently reviving and establishments like Smalls, Hale, Gude, Fisher, Saul, Deitrich, Stander and Freeman are doing a fairly good business for this season. Of late Wm. Smith, the florist, has also opened a store on Pennsylvania avenue near 17th street. Ed. Schmid, the principal dealer in florists' supplies, has purchased a fine building and lot centrally located on 12th near G street, and proposes fitting up the same in the most approved style. On the whole the prospects for the winter's trade seem very encouraging. Z.

AUGUST ROLKER & SONS

NO. 136 & 138 W. 24TH ST.,
NEW YORK,

Importers and Dealers in

FLORISTS' SUPPLIES, SEEDS, BULBS, PLANTS, ETC.

R. VAN DER SCHOOT & SON,
HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NAR- CISUS, SPIRÆA, LILIES OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale Importers should write us for prices. Our new Bulb Catalogue is now ready. Will be mailed free on application.



MUSHROOM
SPAWN
GENIAL BACKBAC

10 lbs 25 lbs 50 lbs 100 lbs
\$1.25 \$2.25 \$5.00 \$9.00

JOHN GARDNER & CO.
PHILADELPHIA, PA.

Strong, outdoor grown Callas that will bloom by middle of Dec., at \$7.00. Double White Primulas, \$9.00. Large blooming bulbs of Amaryllis Johnsonii, at \$2.75 per doz.

J. J. LAMPERT, Xenia, Ohio.



SEASONABLE

STOCK.—

J. C. VAUGHAN,

Box 688,

CHICAGO.

CHOICE FORCING BULBS AND PLANTS ALL THE LEADING KINDS.

FRESH PALM SEEDS, NEW CROP PANSY SEED, MEMORIAL WREATHS and CROSSES, the best imported from Germany and France, FLORISTS' SUPPLIES, Etc., offered at reasonable prices, as per my fall list, which will be sent free to all florists and dealers.

ORCHIDS: Just arrived a splendid lot of
ODONTOGLOSSUM CRISPUM (Alexandre).
" LUTEA PURPUREA.
" CUSPIDATUM. CATTLEYA TRIANÆ.
" SANDERIANA.

Prices quoted on application.

Address **J. A. DE VEER, 18 Burling Slip, NEW YORK.**



Probst Bros. Floral Co.,

1017 Broadway, KANSAS CITY, MO.

DAHLIAS, named varieties, single and double, per 100, \$8.00.

TUBEROSSES. Pearl, per 1000, \$10.00.

GREVILLEA ROBUSTA, 3-inch, per 100, \$8.00.

AZALEAS, grand stuff, write for prices.

DUTCH BULBS,

NOW READY.

THE WISCONSIN FLOWER EXCHANGE,
138 Mason Street, MILWAUKEE, WIS.

WE WANT YOUR ORDERS NOW
—FOR—

Chinese Narcissus,

AURATUM, LONGIFLORUM, ALBUM, RUBRUM,
KRAMERI, ELEGANS, AND OTHER
JAPANESE BULBS.

CALIFORNIA LILY BULBS.

Australian Palm Seeds.
California Palm and Flower Seeds.

JAPAN PALM, SHRUB AND FLOWER SEEDS.

Our new Wholesale List of above, and of Trees, Ornamental Shrubs, Plants, Cutters, etc., now ready. SEND FOR IT.

H. H. BERGER & CO.,
P. O. Box 1501, SAN FRANCISCO, CAL.

DUTCH BULBS,

Good assortment left.

Chinese Narcissus. BOUQUET GREEN.

(Order Holly and Green Now.)

LILIUM AURATUM

Tuberose Bulbs.
PALMS, fine stock.
Gladiolus, Pæonies,
and other stuff of this class ready.

Special Glass Vases for Chinese
Narcissus, doz. \$2.25.

C. H. JOOSTEN,

3 Centies Slip, NEW YORK,

—IMPORTER OF—

**FORCING BULBS,
IMPORTED HARDY ROSES,
Strong Clematis, Etc., Etc.**

GLADIOLUS BULBS.

Prevailing Colors, Pink and White.

Over 100 named varieties, and a number of choice seedlings all mixed together. This collection has never been called, and it has received a number of first premiums. In fact it has never failed to do so when exhibited. To avoid retailing these bulbs, I offer them this fall at \$10.00 per 100 for first size, second size \$7.50. A quantity of small bulbs and bulbets at a bargain.

M. CRAWFORD, Cuyahoga Falls, Ohio.

ORIGINAL AND LARGEST GROWERS OF

LILIUM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new span greenhouses, here at Tarrytown, 20 feet in width by 140 in length, of a crop of *Liliium Harrisii* in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter. In fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it is in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 20,000 bulbs for his own use. We hear it said occasionally that *Liliium Harrisii* flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing."

The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**: supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

— HALF A MILLION BULBS. —

Be sure you get the genuine *Liliium Harrisii*. In order to secure "the true variety," purchase our Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant *L. Longiflorum* in Bermuda, planting it with *Harrisii* to increase their stock rapidly when *Harrisii* was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the market has never yet met the demand. "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

A New Hollyhock Disease.

In the *Journal of Mycology*, Vol. 6, No. 2, issued December 10, 1890, by the U. S. Department of Agriculture, Division of Vegetable Pathology, appears an article by E. A. Southworth, on a new hollyhock disease which is stated to be entirely distinct from the two diseases of the hollyhock already described. The disease is caused by a fungus to which the attractive name of *Colletotrichum Altheae* has been given. The external characters are described as follows: "The fungus may attack any part of the plant; when on the leaf it occurs in the form of a brown spot, which may increase in size until the whole leaf is either diseased or withered; when on the petiole the leaf and part of the petiole beyond the point of attack shrivel up at once; when at the base of the petiole, on the young unfolding leaves, or on the main stock of the plant itself, the fungus quickly runs down to the root and kills the plant. Wherever the stem or petioles are attacked they shrivel up; all flow of sap is checked and the part of the plant or leaf beyond this point must succumb. If the plant is very dry the diseased parts dry up, but if grown in a moist place the trouble is aggravated by swarms of bacteria that attack the diseased portions and, instead of drying up, the plant seems to perish by a kind of rot. When the plant has attained some size and firmness of texture the surface of the petiole or stem sinks in at the point of attack, forming a distinct flattening or even a hollow. The color of these spots varies from a light yellowish brown to black. Frequently the centers of the spots are rust color, becoming entirely black later."

Spraying the diseased plants with the Bordeaux mixture gave the best results. Copper carbonate was tried but with very slight effect.

CHRYSANTHEMUM MAXIMUM is a splendid keeper as a cut flower. A half dozen blooms placed in a vase with other flowers over a week ago, and kept in a warm sitting room since, are still as fresh and effective as when first cut, while all the other flowers in the vase have faded and dropped.

PLANT BED CLOTH.

CHEAP SUBSTITUTE FOR GLASS ON Hot-beds, Cold frames etc. Three grades. Light, Medium, Heavy.



Used by Florists, Gardeners, etc., invaluable for Tobacco towers. Protects from frost. Promotes hardy, vigorous growth and keeps beds warm all night or midday. For sale by the leading Dry Goods houses, Seedsmen, Florists, etc. Well known and extensively used. For circulars and samples, apply.

NATIONAL WATERPROOF FIBRE CO.
27 South Street, - NEW YORK.
Agents Wanted.
Mention American Florist.

Kills Mildew
and
Fungus growth.
What does?

GRAPE DUST.
Sold by Seedsmen.

Mention American Florist

THIS CUT
FOR YOUR CATALOGUE. The Trowel, introduced last season, sells at sight. For transplanting, lifting and setting plants as an all around "Handy Digger" it has no equal. \$2.00 per dozen. THE FLORAL SUPPLY CO., BINGHAMTON, N.Y.

A. BLANC,

ENGRAVER FOR FLORISTS.
PHILADELPHIA, PA.



Electro of this Cut, \$2.00.
LARGEST STOCK OF ELECTROTYPES OF PLANTS
AND FLOWERS FOR FLORISTS' CATALOGUES, ETC.
Complete Catalogues 50c. deducted from first order.
Agency for the sale of Electrocs of MESSRS. VIL-
MORIN ANDRIEU & CO., (Paris.)

FLORAL DESIGNS.

A book which tells how to make them and shows how they look. Fifty tinted plates of approved designs, in fine shape for showing to customers in place of the bare wire designs; it "gets there" much better, and looks pretty while doing it. It is a good investment for any working florist at \$3.50, postpaid, and can be had of

J. HORACE McFARLAND,
Box 55. HARRISBURG, PA.

LONG'S FLORAL PHOTOGRAPHS

—WERE AWARDED—
SPECIAL HONORABLE MENTION
at Boston Convention Exhibit.

Enterprising florists readily appreciate their use as a practical help in their business. They help to better priced orders, and save much time during a rush when it's most valuable to you. The series now reaches eighty-five in number. Each a distinct subject.

ARTISTIC. BEAUTIFUL. PERFECT.
Order of any reliable supply man, or send for descriptive and priced catalogue direct to the publisher.

DAN'L B. LONG, Florist,
BUFFALO, N. Y.



ESTABLISHED, 1866.
Floral Wire Designs.
Manufactured by
N. STEFFENS,
335 East 21st Street, - NEW YORK.



2,000,000 EVERGREEN CUT FERNS

Especially for Florists' use.

\$1.50 per 1,000; 5,000, \$6.25; 10,000, \$10.00.
Discount on large orders. Special attention paid to supplying the trade all winter. Nothing but first-class stock will be shipped.



25,000 YARDS BOUQUET GREEN WREATHING,

for HOLIDAY SEASON, all wound on a cord with fine wire, and warranted strong enough to hold up in 30 yard lengths without separating (any size made to order). 100 yards of the standard sizes constantly on hand after Oct. 1st. Orders by mail or telegraph shipped at once. Terms Cash, or goods will be sent C. O. D.

3 in. diam. flat or one-sided.....	per yd. \$.04
3 in. diam. round.....	" .05
4 in. diam. round.....	" .08
5 in. diam. round.....	" .10

Discount on large orders.



SPHAGNUM MOSS.

Long, clean fibre, barrel or sack, \$1.00;
Six barrels, \$5.00; Twenty barrels, \$15.00;
One hundred barrels, \$65.00.

This Moss is warranted free from leaves, sticks and rubbish of all kinds.



Christmas Trees

OF ALL SIZES.

Special attention paid to furnishing in car load lots

Smaller sizes, from 3 to 10 ft., American White Spruce, very nice shape and full.

Larger sizes, from 10 to 25 feet, Balsam Fir.

Write for Prices and Terms.

L. B. BRAGUE,

DEALER IN FLORISTS' SUPPLIES,
HINSDALE, MASS.

CITY STAND DURING THE HOLIDAYS,
47th St and Lexington Ave., New York.

STANDARD POTS

made by the latest improved machinery, are better and cheaper than those made by the old way. Price, 1" O. B. cars here, free of charge:

2 in. - 100, "	3 in. - 100, "	4 in. - 100, "	5 in. - 100, "
6 in. - 100, "	7 in. - 100, "	8 in. - 100, "	9 in. - 100, "
10 in. - 100, "	11 in. - 100, "	12 in. - 100, "	13 in. - 100, "
14 in. - 100, "	15 in. - 100, "	16 in. - 100, "	17 in. - 100, "
18 in. - 100, "	19 in. - 100, "	20 in. - 100, "	21 in. - 100, "
22 in. - 100, "	23 in. - 100, "	24 in. - 100, "	25 in. - 100, "

All pots shipped at 5th-class frt. rates. Terms cash.

HILFINGER BROS., Fort Edward, N. Y.

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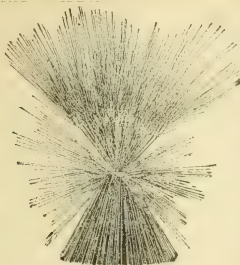
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TRADE DIRECTORY

Price, \$2.00.
AMERICAN FLORIST CO., Chicago.



No. 126. Metal Wreath.



No. 130. Standing Sheaf.



No. 261.



No. 6498.

H. BAYERSDORFER & CO.

56 N. Fourth St.,

PHILADELPHIA.



White Willow Plateau.



Dove.



No. 208.



Immortelles.



No. 48. Metal Wreath.

We always have on hand a full line of **Florists' Supplies**, such as BOUQUET PAPERS, TINFOIL, WIRE, TOOTH PICKS, CHENILLE and IMMORTELLE LETTERS, GUM SPRINKLERS, WAX and TISSUE PAPER, DRIED MOSSES and SEA MOSS, DOVES, IMMORTELLS, all kinds of NATURAL, BLEACHED AND COLORED DRIED GRASSES, DRIED FLOWERS, a complete assortment of METAL WREATHS, CROSSES, STARS, ANCHORS, Etc. A full stock of IMPORTED BASKETS. We also Manufacture FANCY STRAW, WICKER and WILLOW BASKETS, and SHEAVES OF WHEAT. IMPORTED ARTIFICIAL FLOWERS AND LEAVES for Funeral Designs.

A trial order solicited from those who have never dealt with us.

Prices cheerfully supplied on application.

EXCLUSIVELY FLORISTS' SUPPLIES. THE MOST COMPLETE LINE IN AMERICA.

H. BAYERSDORFER & CO., 56 N. 4th Street, Philadelphia, Pa.

BOXES. BOXES. MAILING and CUT FLOWER BOXES.

Read what C. A. Reeser says for our 3-PIECE BOX:

GENTLEMEN—I write to tell how well pleased I have been with the mailing boxes you have furnished me during the past two years. I think I have ordered 5 or 6 thousand, thus giving them an extensive trial. I think there is nothing in the market that is so satisfactory, at least that has been my experience, and I have tested nearly, if not quite all the boxes in the market for that purpose.

Yours very truly, C. A. REESER.

Send for price list, free. Sample sent 15c.

SMITH & SMITH, Kenton, Ohio.

ENGLISH RHODODENDRONS.

Every variety and color, £4 to £10 per hundred.

CLEMATIS.

The choicest and best kinds, 65s to 75s per hundred.

F. STREET, Nurseryman,

easternside Nurseries, CAMBERLEY, ENGLAND.



Pat. 1882, '85, '86, '88, '90.
"RING STEEL GALVANIZED"
ARMORED

Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mfg and Owners of all the Sphincter Grip Armored Hose Patents, 49 Warren Street, New York.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes 1/4 inch to 42 inches diameter. The making, vending, or use of any serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mfg and Owners of all the Sphincter Grip Armored Hose Patents, 49 Warren Street, New York.

PAINT

That is White and will stick on Greenhouses.
That is Rust Proof for Iron Pipes and retards no heat.

ADDRESS
HAMMOND'S
Paint & Slug Shot Works,
FISHKILL-ON-HUDSON, N. Y.

Every Florist! Every Nurseryman! Every Seedsmen!

SHOULD HAVE OUR TRADE DIRECTORY.

Address **AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.**

S. A. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

Many of our friends agreeing with us that the award on Standard Pots at our late Exhibition was an unjust one, we shall use the advertising columns of the AMERICAN FLORIST to state our side of the question.

We asked the Executive Committee to give us an impartial committee of award. The following propositions should convince anyone whether **WE FEEL** that we have taken a Committee.

The following is the text of the matter in question, taken from the official programme:

"Manufacturers of FLOWER POTS are notified that a Certificate of highest merit will be awarded to that display of Pots shown at this exhibition, which most nearly approaches the Standard. Such displays shall consist of not less than one dozen of each size, made from working molds and not turned down."

One member of the Committee of Award said that we were not entitled to any award because we exhibited but fifteen sizes, while others exhibited seventeen, and that seventeen cuts were represented on a white sheet of Standard Pots. We fail to see that the award was offered for any specific number of sizes, but that twelve of each size should be presented. **A MUCH MORE IMPORTANT PART OF THE COMMITTEE'S ANNOUNCEMENT** was that the pots should be **MADE FROM WORKING MOLDS AND NOT TURNED DOWN**. We do not hesitate to make this public statement that the Flower Pots to which was awarded the Certificate of highest merit were **VERY MANY** of them **EITHER GROUND, FILED, TURNED or SAND-PAPERED** to size, and for that reason alone were not entitled even to a measurement by the Committee of Award.

WE WISH TO MAKE TWO PROPOSITIONS.

First. We will put up **\$1,000 in Cash** and submit the same pots exhibited at the late Exhibition against the pots exhibited by our competitor, and leave it to an impartial committee of three, and if our pots do not come the nearest to the requirements, we will present the \$1,000 to the fund of the Society of American Florists.

Second. We will put up **\$2,000 in Cash** and produce 300 pots of each size from 1½-inch to 7-inch inclusive, and 250 pots each from 8-inch to 12-inch inclusive, making 7,250 pieces, made from the same moulds in which the pots we exhibited were made, and all shall be of the proper thickness in all respects, against an equal number of pots made from the same moulds that produced the pots receiving the award, and if an impartial committee do not give us the award we will present the money and the pots to the Society of American Florists for an experiment station. And if we are allowed to choose one of the committee of three, we will select our honorable Treasurer Mr. M. A. Hunt, of Terre Haute, Ind.

A. H. HEWS & CO., North Cambridge, Mass.

A. T. CEFREY'S

Patent Improved
Florists'

Immortelle Letter and
Pin Fastener.



CEFREY LETTER CO.
GENTLEMEN—I find the new machine-made Immortelle Letters manufactured by you very salable and in many respects superior to anything of the kind we have ever handled. Their uniformity of shape, size and color, the convenient form in which they are put up, and the excellent device for fastening them to the work, are among the most commendable points in your letters. Please double my last order and deliver as soon as possible. Yours truly, W. J. STEWART.

CEFREY LETTER CO., 13 Green St., Boston.
DEAR SIRS.—Please ship me five thousand letters as soon as possible. They are the best and most practical letters in the market. The pin fasteners are a long way ahead of the old-fashioned way of wiring. Yours truly, N. F. MCCARTHY.
CEFREY LETTER CO., Boston, Mass.
DEAR SIRS.—Send at once ten thousand small letters and five hundred large (two inch).
GALVIN BROS., Boston.

We wish to announce to all florists that we have removed to much larger quarters, **No. 13 GREEN STREET, BOSTON**. We make our letters by machinery; they are not only more perfect in size, shape and color, but are the best and cheapest in the market. Our 2-inch letters are only two and a half cents, and the 1½-inch letters are only two cents apiece. Your customers will have no o-hers. Be up with the times! Send us your orders and we will ship you a supply for this winter. **They are the best in the market.**

THE CEFREY LETTER CO., 13 Green Street, BOSTON, MASS.

A Butter Bush.

The New York Tribune of October 12 has the following: "Look out for tall tales from Africa. One now current is that there has been discovered on the west coast of Africa a bush the seeds of which yield a yellowish fat of very agreeable nutty flavor, which might be used as a substitute for butter. It solidifies like butter, and contains no acids which cause it to become rancid. If the plant can be domesticated in this country, no home will be complete without its butter bush. Some people, however, may prefer the palm."

THE COMMISSIONERS of Fairmount Park, Philadelphia, this fall commenced the practice of making a free distribution of the surplus plants remaining in the park beds after the number required for propagation had been housed. Something over 70,000 plants were distributed to over 5,000 applicants.

**THE EVANS CHALLENGE
VENTILATING APPARATUS.**

WITHOUT A RIVAL EITHER IN
COST, SPEED IN OPERATING OR
SECURITY IN CASE OF STORMS.



MANUFACTURED BY
QUAKER CITY MACHINE CO.,
1108 and 1110 North E Street,
RICHMOND, IND.

WHEN WRITING FOR ESTIMATES, PLEASE GIVE
FOLLOWING DIMENSIONS:

- 1st. Give the number of sashes to be lifted.
- 2nd. Give the length and depth of sashes, (depth is down the roof).
- 3rd. Give the length of house.
- 4th. Give the height from the ground to the comb of roof.
- 5th. Give the thickness and width of rafters or sash bar.

**Ventilator Machinery**

FOR ALL CLASSES OF GREENHOUSES
EITHER FOR TOP OR SIDES.

Awarded the only Certificate of Merit
at Buffalo Convention.

Patented Dec. 10, 1889.

Write for Catalogue before ordering
elsewhere.

E. HIPPARD,
YOUNGSTOWN, O.

SPHAGNUM PACKING MOSS, in bales.

GREEN ORCHID MOSS, in barrels.

FIBROUS PEAT, FOR ORCHIDS, in sacks.

Tree and Plant Labels of all kinds, printed,
painted or plain.

MAILING BOXES.

Wire, Toothpicks, and all kinds of Nursermen's and Florists' Supplies.

H. W. WILLIAMS & SONS,
BATAVIA, ILL.

EXCELSIOR STANDARD FLOWER POTS,

WITH PATENT VENTILATED AND PERFECT DRAINAGE BOTTOM.

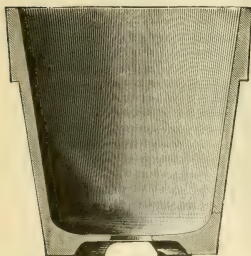
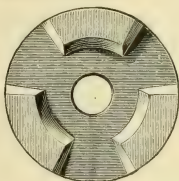


Diagram showing how
perfect drainage and ventilation
is secured.

**Card.**

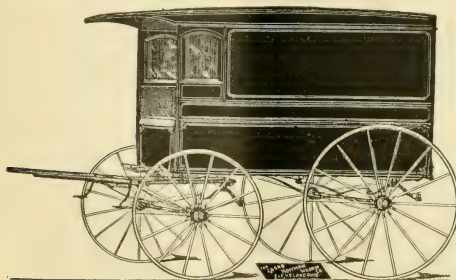
The only pot with Patent Perfect Drainage and Ventilated Bottom. These pots are all Standard sizes and shapes, the same that carried out of Boston the ONLY

FIRST-CLASS CERTIFICATE OF MERIT.
It will be to your advantage to send for prices before purchasing elsewhere.

Patented and Manufactured only by

THE WHILLDIN POTTERY CO., 713 & 715 WHARTON STREET, Philadelphia, Pa.

We make the Best Delivery Wagons in the World.

THE NEW HOFFMAN FLORIST DELIVERY WAGON.

Specially designed for Florists' delivery purposes.

Write for Descriptive Circulars and Prices to

THE JACOB HOFFMAN WAGON CO.,

Office, 41 Michigan Street,

Cleveland, O.

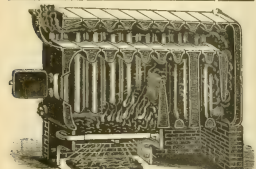
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WILMINGTON, DEL.—A chrysanthemum show will be held under the auspices of the Albert Club of the Delaware Hospital, November 11, 12 and 13. A fairly liberal list of premiums has been offered. Florists L. E. Baylis, G. W. Brinton & Son and J. L. Brown & Co., will each make large exhibits. The exhibition will be held in the Institute Hall.

ATLANTA, GA.—The Atlanta Hort. Society will give a chrysanthemum show either next week or the week following.



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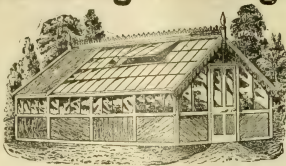
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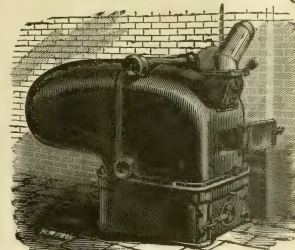
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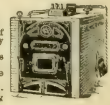
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Vol. VI.

CHICAGO AND NEW YORK, NOVEMBER 6, 1890.

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M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; Wm J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. ELY, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LUNDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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MR. THORPE'S PAPER on the chrysanthemum, which appears in this issue, will be very acceptable to all at this time.

JULIUS NIEPRASCHIK, superintendent of the "Flora" at Cologne, Germany, for the last 28 years, died of heart disease October 14, in his 65th year.

CHICAGO.—The quality of the plants and flowers shown at the third exhibition of the Chicago Florist Club, which opened Tuesday, is far in advance of any previous exhibition. The attendance on the opening day was large.



The Chrysanthemum—Its Western History.

[Read before the Pennsylvania Horticultural Society, October 21, by John Thorpe.]

The chrysanthemum was introduced from China about 1764 to European gardeners. There were seemingly two species, *Sinense* and *Indicum*, the *Indicum* being the small or pompon form.

There is no doubt many varieties were introduced from Europe to America before the beginning of the present century. In search of old kinds I have plainly traced some varieties as far back as 1811 and I have the pleasure to show you a variety which has been in one family over 60 years. I am informed that there are very many kinds to be seen in Virginia which have been known for over 50 years. These are nearly all pompons, though there are some of the Chinese kinds, such as old *hilar*, the golden yellow and the changeable white. Previous to and may be after 1868 all the varieties grown came from Europe; within the last 10 years a great number of the very best varieties have been raised here, many fine kinds have also been directly imported from Japan.

To Japan we are indebted for not only many beautiful kinds, but it was the introductions from there to England by Fortune in 1860-1-2 of some of the very distinct forms that gave a fresh impetus to their culture. The critics of that day ventured to say that the shaggy irregular shaped, ill-colored things would soon be relegated to the past. So much for prediction.

THE PENNSYLVANIA HORT. SOCIETY AND THE CHRYSANTHEMUM.

The Pennsylvania Society has always been a leader in horticulture and in nothing has she led more than in the cultivation of the chrysanthemum. The other day in looking over that old favorite the *Gardener's Monthly*, Vol. II, 1860, I came across the following: Pennsylvania Hort. Society, the November stated meeting held on the 20th inst. "The grandest attractions were the chrysanthemums. Mr. Edie's were the finest specimens we ever saw, some of them measured 15 feet in circumference. They were perfect in shape and many of them had between two and three thousand flowers expanded on them. They were pompons and consisted of Mme. Lafarge, La Citrine, Sac-

ramento Rosette, Bob and Napoleon." This then is what Philadelphia was doing for the chrysanthemum exactly thirty years ago.

Philadelphia is doing to-day exactly what she was doing 30 years ago, for nowhere is there such magnificent plants grown as at Philadelphia, and this is not all, the best chrysanthemums growing to-day came from Philadelphia. When I think of my friends Harris, Waterer, Craig, Lonsdale and a score of others and the work they are doing I wonder how I have the temerity to say a word about the Queen in your presence.

The many and varied shapes of the chrysanthemum is no doubt a factor in its popularity. There is no class of plants that I am acquainted with possessing so much variation, and it is not only their shape but their size which gives them the position held by no other flowers. Of their shapes let me mention the very prim symmetrical forms of the older types of Chinese incurved and reflexed flowers. Mrs. Geo. Rundle represents the former and Cullingfordii the latter; and in contrast the varied forms of the Japanese, some of which are as erratic and grotesque to look on as though they were the work of some juggler, as for instance, Excellent, Conte de Germiny and Lillian B. Bird. These represent only three forms among the section known as Japanese. There are other forms known and classified as Chinese anemones and Japanese anemones; the pompons having small flowers have also as many varied forms among them. Within the past two years a very distinct form or type has been given to us from Japan direct, in Mrs. Alpheus Hardy and Louis Bochner. They are quite an acquisition and will in all probability be permanently known as the Ostrich plume section. Yet another very distinct form from Japan is one having flowers resembling in shape the Scotch thistle and what is more remarkable some of the varieties are distinctly two colored, some having the upper parts yellow and the lower red, others again have white bases and pink tips.

As to sizes, the smallest I know is one-third of an inch in diameter and the largest I have seen (on paper) is over 13 inches, but it is not rare to see flowers over eight inches in diameter, indeed the majority of the largest flowers approximate that size.

The propagation of the chrysanthemum is by cuttings for perpetuation and by seed for the production of new varieties. The chrysanthemum has one peculiarity more pronounced than any other, I refer to bud variation or what is known as sports, from which we frequently get very distinct and desirable colors, and what is most remarkable, the old type of Chinese incurved kinds are more prone to sport than are the Japanese or more

recent seedlings. One of the most remarkable species is Violet Tomlin, a rich plum purple of a new shade, and this came from the Princess of Wales, a nearly pure white kind.

The raising of seedlings is very interesting and always fraught with pleasure, and it is astonishing how many beautiful kinds one obtains each season. To save seed it requires a dry atmosphere and the flowers must be pollenized either artificially or with the aid of insects or other causes. It is well to cut off the petals close up to the stigma, for two reasons, first, there is not so much surplus to hold the moisture and cause moulding, and secondly, the pollen is easier applied to the stigma. When the seed is ripe it should be carefully dried, then stored until sowing time, which should be from January to March. The seedlings grow rapidly and if cared for will flower very satisfactorily the same year. Seedlings require exactly the same treatment as plants from cuttings.

AS TO CULTIVATION.

There is no plant that responds to good treatment as quickly, as surely and liberally as does our Autumn Queen, and even with slights, rebuffs and cruelty she never fails to cheer us though she be not in her best dress.

I regret that I can not go largely into the details of cultivation this evening from the fact that there are nearly as many modes of cultivation as there are forms and types of flowers. I may say, however, that to get the best results the plants must never suffer from any cause from the time they commence to grow until they have flowered. The chrysanthemum delights in rich well drained soil. It is injured by too much and suffers equally from not having enough water. It thrives in sunshine and requires room for development. Those who are desirous of having very large flowers must remember that what they attain in size is at the expense of quantity, and I wish to impress upon those who are growing chrysanthemums in an ordinary way for garden decoration that it pays to thin the flower buds, taking from one to two thirds off each plant.

Some of the ways the chrysanthemum is grown:

First—As large plants in pots for exhibition either as bush plants or standard.

Second—So as to grow very large flowers for exhibition in a cut state.

Third—For producing very fine flowers in large quantities for sale or for home decoration.

Fourth—Growing medium plants in pots for market and conservatory decoration.

Fifth—For decorating private gardens and parks.

It may seem strange but there are very few varieties indeed that are suitable for all purposes above mentioned. Then again there are many varieties that do not thrive equally in all places.

GROWING SPECIMEN PLANTS.

The growing of specimen plants is one of the most interesting forms of cultivation, but it is one of labor and great attention and the man who attempts to do it successfully must be constantly with them, as one hour's neglect at any stage of the game will be charged up to him long before the first of November.

When to take the cuttings for specimens depends upon three things: the variety, the convenience and the size of plant required. It is best to put in cuttings at different times from November to March. One of the greatest troubles I have found

with very early struck cuttings is their liability to harden in February and March. This occurs when the plants are exposed to bright sunshine and to too much heat; and depend upon it as soon as a plant begins to harden (that is the wood to ripen) that finishes it as a fine specimen. Of course plants must not become pot bound at any stage, and they must be pinched so as to break rightly or they will be unshapely.

As to training I am sure that the fewer stakes there are used and the less mechanical the training is, the better for the plant, as it is more natural; for it must be remembered the chrysanthemum is somewhat of a rustic.

When the plants are growing vigorously they are benefited by watering with liquid manure, this should not be too strong, and if nitrate of soda or sulphate of ammonia is used it should be in very small quantities and not given too often.

The disbudding and training must be as strictly attended to as is the watering. When the plants are housed they should be subjected to as little artificial heat as is consistent with their requirements.

The growing of plants to produce exhibition cut flowers may be proceeded with in three ways. They may be grown in pots as for specimen plants, but without pinching, or they may be planted in boxes 10 inches deep and of any breadth or width according to the number of plants to be grown in each box. A box 3 feet long, a foot wide and 10 inches deep does nicely for six plants; or they may be planted out in a greenhouse and grown on without disturbing in any way. Such plants are allowed to carry not more than three or four flowers each; this is done by disbudding, pinching out the side shoots and surplus wood. Yet another plan which is followed quite generally in England is this: Plants are allowed to grow with one stem unmolested until June, when the stems are cut to within two feet or 16 inches of the pot, these are allowed to break and about three growths are allowed to develop, and on these growths only one flower. The plants are grown in from 8 to 14-inch pots, according to the strength of the plant and the variety.

Another form of cultivation, and one which has grown out of the extended cultivation of the chrysanthemum, is the manner in which thousands of plants are grown for cut flowers for market purposes. That is this: They are treated as roses are treated; they are planted on benches, from four to six inches deep and from nine to eighteen inches apart, according to the season of planting. If planted early in June they are planted eighteen inches apart, if in August nine inches, or even six inches suffices. They are not pinched more than once, and in many cases not at all. They are trained carefully to straight stakes and carry only one to three flowers to each plant, and when they are marketed they are cut with stems two to three feet long. This plan of cultivating is being very largely carried on in the neighborhood of New York.

The decoration of the garden with chrysanthemums is not as elaborate as we may expect it to be at a very early date. The requirements for the garden are rather exacting, as the plant should be of sturdy growth, it should have thick heavy bright foliage, it should have medium sized distinctly colored flowers with short petals, and of hardy constitution, thus defying wind and storm. I have been turning my attention to rais-

ing seedlings with the above schedule as my guide.

Of course when planting for garden decoration the plants must have room for development. They should be planted two and a half to three feet apart at the least. They must have nutritious soil, sufficient water is to be given them in dry weather, they should be in a position where they will be sheltered from heavy winds and under no circumstances forget to thin out a third of the buds. Quite a number of my friends have their "Snug Harbors" for chrysanthemums, which is nothing but a frame work of light strips and posts, covered with canvas. The roof is also of canvas attached to a roller. This is rolled up and down as required, and it is astonishing how much frost is kept out by this simple contrivance, and how many beautiful flowers are obtained.

Commercially considered the chrysanthemum is now of as much importance as any other flower in its season. Millions of plants are now sold annually where but a few thousands were sold ten years since. Good flowers of chrysanthemums realize as much as the very finest roses do in the depth of the winter. I saw the other day a basket of thirty-five flowers arranged by Thorley sell for \$100, and \$18 a dozen was frequently paid for fine flowers last season. These very plants these flowers were from can be purchased for 25 cents each.

And now I think it is time for me to be going, I must pay tribute to the Queen. It was said six years ago the chrysanthemum was a passing craze and that that was the last year of it, and so it was said each year (by some) until last year. This came from those who never knew how to love a flower, or from those whose mercenary interests warped their judgment. Lovers of flowers love the flower they have before them whether it be the aristocratic orchid or the plebeian golden rod. The Queen of Autumn lengthens out the year and adds sunshine to our hearts; she does it without trespassing or encroaching on any other realm, she is as happy with the artisan as with the richest in the land, she appeals to the heart and not to the purse, she is as welcome to all as are the crocus and dog-woods in the spring.

Seasonable Notes.

The exhibitions are here and now for the fruits of your labor. Be careful in packing both plants and flowers. Secure plants firmly in position either by blocks or other packing when removing them. Pass a soft piece of tying material entirely around each plant drawing rather tightly all branches, see that the flowers are sufficiently secured so as not to oscillate, as it is this which causes so many bruised and ragged flowers one sees on plants at exhibitions.

In packing cut flowers those who have not proper boxes for packing should first of all wrap the flowers in soft tissue paper, and that rather tightly so as to prevent the chafing of the petals; they should then be packed in layers of about two flowers deep, a very light covering of very thin boards or lath can be put on the top of the first two rows, then another lot of flowers, and so on until the top of the box is reached. Remember to pack sufficiently tight to prevent moving. Don't wet either the flowers or packing.

Cut all flowers at least 24 hours before packing, plunge the stems into water in a dry cold cellar away from ice, so that they may get well filled before exhibiting. Cut all flowers just before arriving at



VIEW IN A HOUSE DEVOTED TO ORCHIDS FOR CUT FLOWERS AT MR. WM. MATHEWS, UTICA, N. Y.

their best; they will keep two weeks and some will improve 20 per cent.

All dark flowers are improved by being shaded from the direct sunlight.

When cutting see that the variety tallies with the name, and if you are not well-posted have some reliable catalogue to refer to so as not to be disqualified for improperly naming or for duplication. All good chrysanthemum growers go round now with a pocket full of strong newly painted labels and relabel all plants requiring new ones and with a blue pencil O. K. all stock plants.

Raisers of seedlings will please bear in mind that there is lots of room at the top yet; but we do not want any semi-double kinds unless they are entirely novel in color or shape. We do not want any duplications of existing varieties. No old varieties with new names and no puny growers.

JOHN THORPE.

Standard Pots.

ED. AM. FLORIST:—It is a matter for sincere regret that a Boston firm should descend to question the decision of the judges in the award of the certificate of merit for the standard flower pots.

The members composing the awarding committee are beyond reproach, and the decision of that committee should be and

is considered final by all well meaning men.

The executive committee at its next meeting should adopt vigorous measures to exclude from future competitions or exhibitions any person or persons who publicly or otherwise question the decisions of any of the committees of awards. If some such action is not taken good men will decline to serve on these committees.

In the unfortunate advertisement of the defeated competitor it is made apparent that the opinions of Mr. M. A. Hunt were perfectly satisfactory. Did Mr. Hunt present a minority report? or did he withhold his signature from the report as presented to the society? It would seem that Messrs. Hews & Co. wanted to convey one or the other idea. And if so, would that firm have the report thrown out and no award made because the committee had not reported unanimously in favor of the standard pots exhibited by Messrs. Whilldin & Co.? If that was made the occasion for a "kick" at all competitive exhibitions very few awards could be made.

One of the wisest things ever attempted by the Society of American Florists was the establishment of a standard pot. If all the manufacturers would combine, and adopt a mould which would under

all reasonable circumstances make pots that would be interchangeable with each other, then the ideas of the society would be carried out. And, would it not be to the interest of the manufacturers to study the requirements of their customers, rather than antagonize them?

Oct. 8, '90.

EDWIN LONSDALE.

Palms as Gifts.

Says the *New York Times* in its issue of September 20: "A graceful and acceptable gift which a young mistress of a home especially values is that of a growing palm. In a handsome jar it reaches the dignity of a wedding gift. Select one which the florist can assure you has grown slowly in a cool place. Palms forced quickly in a hothouse will not stand the wear and tear of a dwelling house life, with its gas, dust, furnace heat, and so on. Hardy specimens, well cared for, put out through the summer, and given an occasional airing in the conservatory, your own or a florist's, in the course of the winter will thrive for years as a house plant. It is experimenting with forced specimens that has discouraged householders with them, and many persons now, for their conservatories and summer residences, rent palms by the season, the florist keeping a supply of

hardy plants continually with his customer. If any show signs of drying or lose their lustre, which is their great charm, they are at once removed and replaced with a perfect plant. There is little risk, however, in owning one outright if care is used in its selection and the florist tells the truth about it."

Special Fertilizers for Greenhouse Crops.

BY SAMUEL T. MAYNARD.

(From the October Bulletin of the Hatch Experiment Station of the Massachusetts Agricultural College.)

The question of the use of special fertilizers under glass is becoming one of great importance, and is attracting much attention among practical gardeners and scientific men.

Even the best and most skilled gardeners sometimes find that their soil, made up after the best formulas, fails to give the results expected. The plant food seems to be unavailable or the plant lacks the vigor to make use of it, and something more active is needed to give it a start.

To determine what special fertilizers will give the best results applied to crops under glass, a series of experiments were started in the winter of 1888-'89, the results of which are deemed of sufficient value for publication, although a longer series of tests may somewhat modify the results thus far obtained.

The following experiments were made in two houses built side by side as nearly as possible alike, one heated with steam and the other with hot water. The space was divided into plots of equal size in each house with the same number and kind of plants in each, the aggregate number of blossoms from both plots being given with the kind of fertilizer used.

CARNATIONS—1888 and 1889.

Six beds of thirty plants each were set in each house, the same kinds in each, and all as nearly the same size and vigor of growth as possible. The soil was made moderately rich with stable manure and fine ground bone, and the special fertilizer applied in liquid form by dissolving one tablespoonful in a two gallon can of water. The results are shown in the following:

Gave Blossoms.

Plot No. 1. Muriate of Potash,	276
" No. 2. Sulphate of Ammonia,	314
" No. 3. Nitrate of Soda,	309
" No. 4. Sulphate of Potash,	356
" No. 5. Bone Black (dissolved),	378
" No. 6. Ordinary liquid manure,	195

SUMMARY OF RESULTS.

These results are very much in favor of bone black and sulphate of potash.

PANSIES.

To compare the effects of muriate of potash with the sulphate, thirty-six plants of a choice strain of pansies were set in two beds and treated by mixing the fine fertilizer with soil so as not to bring it in contact with the leaves. The result is as follows:

Plot No. 1. Treated with Muriate of Potash gave 806 blossoms.

Plot No. 2. Treated with Sulphate of Potash gave 1363 blossoms.

CARNATIONS.—WITH COMBINED FERTILIZERS.

To learn the best combination for the carnation 13 plots were made, each of 10 of the same kind of plants. Using four pounds ground bone to each plot mixed with a well enriched soil as a basis, other fertilizers were applied as follows:

Plot.	No. of Blossoms.
No. 1. $\frac{1}{2}$ -lb. Muriate of Potash,	
$\frac{1}{2}$ -lb. Sul. Ammonia,	130
No. 2. $\frac{1}{2}$ -lb. Muriate of Potash,	
$\frac{1}{2}$ -lb. N. Soda,	124

No. 3. $\frac{1}{2}$ -lb. Muriate of Potash,	
$\frac{1}{2}$ -lb. N. Soda,	124
No. 4. $\frac{1}{2}$ -lb. Muriate of Potash,	
$\frac{1}{2}$ -lb. Bone Black (dissolved),	154
No. 5. $\frac{1}{2}$ -lb. Muriate of Potash,	
$\frac{1}{2}$ -lb. Dried Blood,	134
No. 6. $\frac{1}{2}$ -lb. Muriate of Potash,	
$\frac{1}{2}$ -lb. M. Potash (excess),	118
No. 7. $\frac{1}{2}$ -lb. Sulphate of Potash,	132
No. 8. $\frac{1}{2}$ -lb. Sulphate of Potash,	
$\frac{1}{2}$ -lb. Sul. Ammonia,	163
No. 9. $\frac{1}{2}$ -lb. Sulphate of Potash,	
$\frac{1}{2}$ -lb. Nitrate Potash,	110
No. 10. $\frac{1}{2}$ -lb. Sulphate of Potash,	
$\frac{1}{2}$ -lb. N. Soda,	133
No. 11. $\frac{1}{2}$ -lb. Sulphate of Potash,	
$\frac{1}{2}$ -lb. Bone Black (dissolved),	161
No. 12. $\frac{1}{2}$ -lb. Sulphate of Potash,	
$\frac{1}{2}$ -lb. Dried Blood,	113
No. 13. $\frac{1}{2}$ -lb. Sulphate of Potash,	
$\frac{1}{2}$ -lb. Sul. Potash (excess),	128

In this test, the sulphate of potash with the sulphate of ammonia gave the best results, closely followed by the same form of potash combined with bone black; with the latter, and muriate of potash third; while the poorest results were from sulphate and nitrate of potash, sulphate of potash and dried blood and muriate of potash in excess.

GENERAL SUMMARY.

Summing up the results we find that of the nitrates the nitrate of potash has given the best results, but that the sulphate of ammonia gives better results than either, especially in the production of a foliage crop.

Of the potash salts the sulphates give better results than the muriate.

Bone black shows a marked effect in increasing the number of blossoms.

Notes and Questions About Some Hardy Flowers.

"*MANETTA CORDATA* or *cordifolia*, which is right and where can I get it?"—*Cordifolia* is right. Siebrecht and Wadley catalogue it.

"*WHERE* can I get *Arctia echinoides*?" I do not find it advertised in any of the last year's catalogues that I have got. It is rather an uncertain plant to handle.

"I BOUGHT seeds of the annual *Arctia comuta*, last spring, but could not get them to germinate. They did not appear ripe to me." We also bought seeds of it, and were fortunate in raising some plants which grew very well, and bloomed beautifully.

OPOPONAX and *ACACIA FARNESIANA*.—"Henderson's Handbook of Plants gives *opopanax* as an umbelliferous plant, but in a contemporary I find this name applied to *Acacia Farnesiana*, which is right?"—*Opopanax* is a genus of umbelliferous plants. But evidently the word *opopanax* is used as a popular or English name for *Acacia Farnesiana*, a favored shrub-tree indigenous to the West Indies and a good deal planted near the coast of the more southern states and other extra-tropical countries, particularly in those bordering the Mediterranean, where a delicate perfume is manufactured from its flowers.

"Is *MILLA FLORULA* hardy here?"—The Long Island bulb growers treat it as a tender plant; they plant it out in spring and lift and house it again in fall, much in the same way as they treat gladioli. I am not sure that its hardiness has been sufficiently tested. Four years ago, however, I left some bulbs of it out over winter, and inspiring they were dead.

"COULD one trust to *calochortis* surviving the winter in open ground, if covered somewhat?"—Yes, I have found

several of them to be hardy enough here under such conditions; but like several other Pacific-slope bulbs they often are peculiar in their behavior, and I always have had best success with them when I lifted and took them indoors over winter or kept them in pots in a cold frame.

"WHAT EFFECTUAL means can one take of destroying root lice? My garden is so infested with this aphid that I am unable of late years to grow asters and some other composites (especially *Belvis perennis*) at all satisfactorily, and I am perplexed how to mitigate the nuisance. The 'yellow ant' rears them as we do cattle, and establishes colonies of them on the roots of every aster, and they suck the life out of them. What can be done to rid our plants of this pest?"—Will some one kindly tell us.

"LATE SOWN asters and calendulas and pansies and phloxes, with escholtzias, petunias and nasturtiums give quite a brilliant late display, and are useful for cuttings but I would like some perennials. I cannot use the yellow-flowered composite perennials. So far I regard the white form of *Anemone Japonica* as by far the most valuable perennial of its season. I have the semi-double pink or carmine-rose *Anemone*. It is very gay and useful, but rather coarse to use with white in cutting flowers. I wish a single, rose colored one could be got of equal quality."

"I would much like to have the names of six hardy perennials coming into bloom with *Anemone Japonica*."—Try *Clematis Stans*, *Pyræthrum uliginosum*, *Gaillardia andillorum*, *Eranthis pinnatifida*, *Conoclinium coelestinum* and hybrid delphiniums cut back as soon as they had bloomed in early summer. All these are good September bloomers, but we also have a host of odds and ends, although few full crops at this season. *Gladiolus*, *tritomas*, *dahlias*, *camas* and the like, together with annuals furnish a large bulk of our cut flowers in September.

"MOUNTAIN FLEECE gets so touched by frost before fairly opening that it has little value with me."—The heyday of this plant is between the 1st and 20th of October and in localities where a sharp frost occurs before this time the Mountain Fleece cannot be grown to advantage unless protected from frost in some way, for frost will destroy its flowers.

"COSMOS was just as useless though started early."—Again October is the heyday of the cosmos, indeed, it is later than the Mountain Fleece, and it doesn't make a lot of difference in their time of flowering whether the plants were started early or late, unless they have been pot grown.

"WHEN SHOULD one get plants of *Corydalis nobilis*, in early spring or in the fall?" In the fall by all means. It is perfectly hardy and starts into growth quite early in spring.

"WHY is this thus?"—"In sending for the double white *Hesperis matronalis*, I got the common single-flowered purple one; for *Trollius Fortunei*, double, I got the ordinary single *T. Europeanus*; for *Achillea the Pearl*, I got the ordinary *A. ptarmica* fl. pl., and in *Scabiosa caucasica* I had a quite single flower of a washed out tint, evidently a poor quality seedling."—Because some *trollius* have large, full, incurred flowers, it is hardly safe to call them double. *Scabiosa caucasica* has always been, in my opinion (but I know many people differ with me on this point), an immensely over-praised plant.

W. F.

DEUTZIA SCABRA can hardly be said to be on the market it is so scarce; and in the northern states it is barely hardy. *Deutzia crenata* is probably the species meant. Yes, it can be forced easily enough, but it must be brought along slow. The single form drops its flowers so quick, it is hardly worth forcing, and the double form has an objectionable purple tinge. The variety called *Drake of Rochester* or *candidissima* fl. pl. is the only one worth forcing, for it comes pure white, and being double the flowers hold on pretty well. But plants for forcing should be well rooted, well ripened, long rested and brought on slow, and not too early in the season. W. F.

இன்கெட் and இலேகைகள்.

Conducted by CHARLES F. BAKER, Agricultural College P. O., Ingham Co., Mich.
Send specimens of unidentified insects and diseased plants to him at above address.

Blister Beetles.

Often times in late summer or autumn, when the florist has begun to flatter himself that for another season he is done with the bother of fighting his insect foes, he finds that there still remains, in the form of blister beetles, a most troublesome pest.

The family is characterized by certain conformations of the legs and thorax. The head is bent downwards and forwards, and the antennae are eleven jointed and spring from the front of the head just before the eyes. The legs are long and slender and the hind tarsi are four jointed. The wing covers are very variable and lack in the limy substance, that which gives so much rigidity to the covering of many of our beetles. The bodies are slender, cylindrical and soft. The metamorphoses of the blister beetles and also of the oil beetles are very complicated, and sometimes called hypermetamorphoses. The oil beetles are somewhat similar to the blister beetles in habits, being parasitic in their earlier stages. However, while the oil beetles affect wild and honey bees, the blister beetles pass their earlier stages exclusively in certain locust eggs. Of the blister beetles the black (*Epicauta pennsylvanica*) appears to be the most generally known, and the gray blister beetle is also somewhat widely distributed.

Epicauta pennsylvanica (Fig. 1) is a pure black beetle from 5-16 to 7-16 of an inch in length, and common in the fall about golden rod and aster. It also occurs on many other plants of which it eats the leaves and the pollen of the flowers. The eggs (Fig. 2 B) are deposited in the ground, in a small cavity hollowed out for the purpose, near where locust eggs have also been deposited. After the eggs are laid the female covers them up with dirt scratching it over them by means of its legs. The eggs are laid during July and up to the middle of October in masses of about one hundred and thirty eggs each. Several of these masses are deposited at different intervals, making a total of from 400 to 500 eggs. If the temperature is favorable the eggs hatch in about ten days, producing what Dufour, in 1828, called a *triungulinus*,

but what is now known as a *triungulin*. At first these (Fig. 3) are very small and perfectly white in color but soon become a light brown. Soon after hatching they are very active, running about in search of food, which consists of locust eggs (Fig. 2 A). In regard to their habits during this stage Dr. Riley says: "At night or during cold or wet weather all from one mass huddle together and become very slow of motion. When the sun is warm they are very active, running about over the ground with their long legs and prying with their large heads and strong jaws into

(Fig. 3)

every crevice and crevice in the soil into which, in due time, they burrow. They bristle with spinous hairs which aid them in burrowing. They can survive for even a fortnight in a moderate temperature without food. In the search for locust eggs many never reach the goal but die on the way. Upon the slightest disturbance they will curl up in a ball, with the head bent close to the breast. As soon as the *triungulin* finds locust eggs it goes to eating (Fig. 2 A). Should two or more enter the same egg pod a deadly conflict sooner or later ensues, until one alone remains the victorious possessor." The *triungulin* eats about two of the locust eggs, and then, at the end of about eight days, prepares to shed its skin. It emerges from this moult as what Dr. Riley calls the "canabidoid stage of the second larva" (Fig. 4) from its resemblance to the larva of the family canabidae. After this process is over it returns to its diet of eggs for about a week, when it again moults. This form is Dr. Riley's "scarabaeoid stage of the second larva," so named from its resemblance to certain larva of the family Scarabaeidae. During this stage the larva reminds us, except in size, of the clumsy white grub. It passes about a week in this stage, when it moults, appearing as the "ultimate stage of the second larva" (Fig. 5). It remains in this form about a week, after which the insect leaves the egg mass and forms a small round cavity in the ground, in which, after four days, it moults, assuming its pseudo-pupa form (Fig. 6). This has also been called a conicrete larva from its resemblance to the conicrete pupae of maggot. At this moult all of the skin is not shed, some fragments remaining fastened to the body. At first the new skin is quite soft but soon becomes hard. The head is mask-like and destitute of movable appendages, while the feet are replaced by six tubercles. The insect reaches this stage of its development in the fall of the year, and consequently hibernates as a pseudo-pupa. In the spring, on the approach of warm weather,

the pseudo-pupa revives bursts its skin and appears as the third larva. It now finds a suitable place and, without taking any food in the meantime, burrows into the ground, where it forms the true pupa (Fig. 7). The fact of its taking no food between



(Fig. 7)

the pseudo-pupa and true pupa stages renders the reasons for its assuming the pseudo-pupa stage quite obscure. In about five or six days the pupa stage is passed, and the imago emerges. Only two species of blister beetles are ever known to be at all beneficial in the stricter sense of the word, and these sometimes prey on the larvae of the common Colorado potato beetle. The Spanish fly in Russia feeds on ash, lilac and a number of forest trees. In Italy whole potato fields are devastated by a certain species (*Lytta erythrophthalma*). In our own country these beetles were once considered the worst enemies of the potato. In the south the best known form is the striped blister beetle, which sometimes attacks potato and tomato vines in large numbers. Somewhat further north we find the ash-gray blister beetle attacking potatoes, honey locusts, apple trees, hickory, beets, various kinds of beans and other plants. In some sections the margined blister beetle is quite common, and has been known to attack tomatoes, potatoes, egg plant, Kentucky coffee tree, spinach and other garden plants.

By far the most common and widely known is the black blister beetle, which is common in the fall on golden rod, eupatorium and other wild plants. But only too often does the florist have to suffer from its inroads on common outdoor garden plants, such as asters, gladioli, dahlias and carnations.

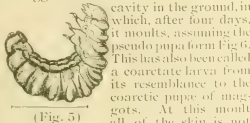
In regard to remedies we find that this insect resembles somewhat the rose bug (*Macrodactylus subspinosus*). The remedies commonly in use are more or less unsatisfactory and no sure remedy has yet been discovered. A remedy which has sometimes been recommended, is laying winnows of straw among the rows of plants, driving the insects into them and then burning. On agitating the plants the beetles will drop to the ground, run to the straw and there take shelter. This plan, however, is very often impracticable, both on account of the situation and the proximity and delicacy of the plants. Another and much better method is jarring. A good sized pan, the bottom of which is covered by water or coal oil, is held underneath the plant. The plant is inclined over it and slightly jarred, when the beetles will fall at once, as they are very sensitive to any disturbance. After becoming used to the operation a large number of plants can be treated in a comparatively short time. It would be better to expend a small amount of work on the plants than to lose them entirely, as is sometimes the case. After the beetles are gathered they may be destroyed by crushing or any other method. This treatment should be repeated every few days, as the beetles will continue to come as long as there are any in the immediate vicinity.

[The figures are all re-engraved from originals by Riley.]

Colours Golden Verschaffelti

I would like to enquire through the FLORIST what success florists have had with the colours Golden Verschaffelti as a bedder. JASON B. ROACH.

Watertown, N. Y.



(Fig. 5)



(Fig. 4)



(Fig. 2)



(Fig. 1.)



(Fig. 6)

News Notes.

MASON, MICH.—A town of 3,000 inhabitants is without a florist.

LUBINGTON, MICH.—Wm. Gregory has just completed two new houses 11x100.

FORT DODGE, IOWA.—John U. Kellenberger has built two new houses 12x60 each.

CLEVELAND.—A. Schmitt, the Glenville florist, has opened a floral store at 141 Euclid avenue.

LITCHFIELD, MINN.—A. M. Caswell has succeeded W. J. Whittington as proprietor of the Litchfield Greenhouse.

SCRANTON, PA.—G. R. Clark & Co. are giving their annual chrysanthemum show at the Armory. It will close Saturday.

WILMINGTON, DEL.—James N. Lewis & Bro. have added two large greenhouses to their plant. They will be devoted to cut flowers.

SAN FRANCISCO.—The fall flower show of the California State Floral Society will be held in the New Academy of Science Building on the 5th, 6th and 7th insts.

LOS ANGELES, CAL.—The second annual chrysanthemum fair opened October 29 and will continue to November 7. The sum of \$245 was awarded in premiums.

MILWAUKEE.—H. Stapes has built greenhouses and started a general florist business at Elm Grove, Wis. Mr. Stapes was with Mr. P. Schmeling for some time.

NEW BEDFORD, MASS.—The third annual chrysanthemum show of the New Bedford Gardeners' and the Florists' Club is being held this week the 6th to 8th insts.

NEWARK, N. J.—The chrysanthemum show is being held this week at the Belleville avenue rink. Bird, of the Arlington nurseries, has a magnificent exhibit.

ORANGE, N. J.—Jacques Bros. have sold their entire business interests to Mr. Frederick Mau, the orchid importer. Mr. Mau took possession of the premises October 20.

PROVIDENCE, R. I.—The forthcoming chrysanthemum show of the Rhode Island Horticultural Society will be held November 14 and 15 instead of 5 and 6 as previously announced.

ST. LOUIS, MO.—During the Corn Palace carnival J. C. Remison, the florist, made a beautiful display of plants and flowers in the palace which was unstintingly praised by the local press.

PLATTSBURGH, N.Y.—W. J. Hesser has put in a large boiler to heat by steam. He is also building an additional greenhouse 16x60 and will add 3,500 feet of glass to be used on hot beds.

SPOKANE FALLS, WASH.—Mr. Isaac F. Tillinghast and E. P. Brotzman of La Plume, Pa., were recently at Chelan, this state, looking for a location for the establishment of a nursery and seed farm.

HELENA, MONTANA.—The firm of Miller & Winter has been dissolved by mutual consent. Mr. Miller retires and Mr. Winter will continue the business at the old place—corner of Sixth avenue and Warren street.

PORTSMOUTH, N. H.—Mr. Robert Paterson succeeds his brother, the late William Paterson as gardener in charge of the estate of Hon. Frank Jones. He has filled

the position of foreman under his brother for a number of years.

KALAMAZOO, MICH.—The local press described the floral displays made by Van Bochove Bros. and the Mountain Home Conservatory at the County fair which closed October 3, as the finest made in this section for many years.

NEWPORT R. I.—The Newport Horticultural Society will give a chrysanthemum show at Masonic Hall November 11 to 13 inclusive. Those having the matter in charge are confident that it will be the finest display ever made in New England.

HARTFORD, CONN.—It is announced that the September exhibition of the Hartford County Horticultural Society netted a loss of about \$200. Preparations are being rapidly perfected for the chrysanthemum show which will be held Nov. 12 to 14.

HAMILTON, ONT.—At a meeting held the evening of October 27 the Gardeners' and Florists' Club of Hamilton, Ont., was organized with an initial membership of 23. F. G. Foster is president and H. Browne secretary. There is every prospect of a strong club in the near future.

SAN DIEGO, CAL.—The decorations for the chrysanthemum fair were entirely Japanese, including bamboo screens, draperies and the costumes of the ladies in charge. These proved very effective in combination with the display of blooming chrysanthemum plants with which the building was filled.

UTICA, N. Y.—The Florists' Club of Utica had a large attendance at the meeting held October 6 to forward the arrangements for the forthcoming flower show. The exhibition will be held in Oneida Hall, November 19, 20 and 21. Committees have been appointed to attend to the details of arrangement.

OTTAWA, ONT.—At the last meeting of the Florists' and Gardeners' Club the question of changing the place of meeting was decided by the vote of the presiding officer, the vote of the members standing 13 to 13. Some little feeling was displayed by those on the losing side and three withdrew from the club as a result.

CLYDE, O.—E. Hall & Son have added two new houses 10x85 and one 20x85, making them a total of 7,500 feet of glass. All the houses are fitted with ventilating apparatus. They have three 10-foot houses with the ventilating machinery placed on the outside of the roof in order to leave head room clear. They report that it works like a charm.

MILWAUKEE.—At a meeting of the Wisconsin Florists' and Gardeners' Club held Oct. 7 the following officers were elected: President, G. W. Ringrose; Vice President, Bert Hoppenrath; Secretary, W. H. Ellis; Treasurer, H. Haessler; Assistant Secretary, H. P. Ellis; Trustees: Ben Gregory, F. P. Dilger; J. M. Dunlop, Financial Committee, M. P. Dilger, C. B. Whitnall, Jas. Currie.

LONDON, ONT.—At the last meeting of the Forest City Florists' and Gardeners' Society it was decided to postpone the chrysanthemum show one week, making the dates November 11 to 13 inclusive instead of 4 to 6 as previously announced. The postponement was made on the report from a number of intending exhibitors that their "mums" would not be in bloom at the dates first set.

MILWAUKEE.—A new retail flower store was opened at 219 Grand Av. Nov. 1. The name of the concern is "The Floral Gem." A. Klokner is the manager, and the flowers and plants will be furnished by F. P. Dilger. At a meeting of the Wisconsin Florists' and Gardeners' Club, appropriate resolutions were passed on the death of Mrs. C. Hoppenrath, mother of the Vice-President of the club, and wife of one of the oldest florists in the city.

ATLANTA, GA.—The chrysanthemum show at the exposition was quite a success. Eight of the first premiums went to Mr. J. Burpitt, a local exhibitor who made a very fine display. The Evergreen Lodge Flower Garden of Clarksville, Tenn. made an excellent display, taking first premium in each of the two classes in which entry had been made. Mr. W. B. Woodruff of Macon, also made a good display.

BRATTLEBORO, VT.—At the recent fair first premiums in the floral department were awarded to D. McGillivray for best display of plants, best collection of geraniums, and begonias; to C. E. Allen for best display choice cut flowers, best collection pansies, best collection cut roses, best collection gladioli, best collection verbenas, best collection asters, best collection dahlias, best basket cut flowers, best foliage bed and best immortelle design.

LOUISVILLE, KY.—At last the florists of this city have come together and will hold a chrysanthemum show November 11 to 15 inclusive. There is promise of a fine display. It is hoped that there will be visitors from among the florists of other cities. Joseph Cohen has just finished three new houses 80x20, all to be heated by steam. Mr. Chas. Schlechter has bought a place and erected three new houses 100x14, to be heated by hot water. Rooms for winter bloom are looking well. Business is very brisk at present, roses in great demand.

NEWARK, N. J.—There are in the library proper and the reference room of the public library of this city about fifty books all of which bear directly upon the subject of botany. Many of these are elaborately illustrated, some with colored plates, and they include the standard authorities on cultivated plants. The books include in the neighborhood of 10,000 pages of reading matter and fully 400 colored plates besides innumerable wood cuts. Anyone in this vicinity who desires to study in this attractive field can have the use of this valuable collection of books for the asking.

TORONTO, ONT.—At the regular monthly meeting of the Toronto Gardeners' and Florists' Club held October 8, about forty members were present. It was decided that the club should hold its first annual chrysanthemum show, November 11 and 12. A special meeting was held October 15 to advance the arrangements for the exhibition, and from the enthusiastic manner in which the members are taking hold of the matter success is assured. The annual election of officers of the club will be held at the meeting November 12.

PATERSON, N. J., Oct. 20.—On the morning of September 25 appeared the only white frost so far this season, and then it was not severe enough to injure even the coleus. Up to this date cannas, caladiums and other tender plants are



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looking fresh, and dahlias are flowering abundantly, but the coleus in consequence of the temperature having fallen to 40° and even a little lower on three or four nights, present a dingy appearance and may be looked upon as done for the season. Last year our first frost did not come until October 4, but was severe enough to cut off everything at once; last year we started the first fire to warm pipes in rose houses on September 10, and fires were continued without intermission throughout the fall and winter, this season the first fire was started September 11, but on account of much warmer weather discontinued with the exception of two or three nights until October 5. Yesterday we were treated to a regular old fashioned summer thunder storm with outside thermometer at almost 60° at 10 p. m. Carnations are flowering freely in the cold frames, without having had the sashes over them to this date.

Boston.

The cut flower trade is improving steadily. Chrysanthemums are cheap considering the quality of the greater part of the stock coming in. Much of it is specimen blooms and in quality the supply is far ahead of any previous year.

Contrary to precedent, the effect of the influx of chrysanthemums is not visible on the rose market. About all the good roses which come in are easily disposed of at fair prices. Carnations still continue scarce. Violets are in short supply with indications of an early advance in price. There are large quantities of cosmos still in the market.

The very timely subject assigned for the November meeting of the Gardeners' and Florists' Club is "Chrysanthemums."

The schedule of premiums for the year 1891 issued by the Mass. Hort. Society appropriates \$3,800 for plant and flower prizes, a liberal advance over the amount offered last year.

Dr. and Mrs. Daughtry, of Portsmouth,

Va., who after attending the convention have been spending a few weeks "down east" passed through Boston October 31 on their return home, and are probably the last of the convention delegates to go. Come again.

Thos. Flannagan, an old time rose grower, died recently at his home in Dorchester of consumption.

Miss Cecelia A. Smith, for many years bookkeeper at Norton Bros.' flower store, was married October 30. She was a great favorite with both customers and gardeners, and Norton Bros. will miss her.

Jackson Dawson has been quite seriously ill, having caught cold during one of his "collecting" expeditions in the woods.

W. J. S.

St. Louis.

Among the visitors to the Exposition at the time of the floral exhibition were Jno. E. Bohan of the Garfield Park Rose Co., Chicago and Jos. Hehl of Jacksonville, Ill.

There is just now considerable music in the vicinity of the greenhouses of Messrs. J. W. North and T. W. Gay. The employees at these two places have formed a military band and are practicing under the direction of W. C. Cook, foreman at the first named establishment.

The first annual banquet to florists, nurserymen and gardeners under the provisions of the will of the late Henry Shaw was given at the Mercantile Club the evening of October 13. Prof. Wm. Trelease, Director of the Missouri Botanical Gardens presided, a little over fifty being present. The company took seats at the banquet board promptly at 8:30 o'clock and it was 11 o'clock before the elaborate menu had been disposed of and Prof. Trelease rapped for order and introduced Mr. L. A. Goodman, Secretary of the Missouri State Horticultural Society, who spoke briefly and pointedly upon the "Needs of Horticulture."

Hon. J. M. Smith, for many years Presi-

dent of the Wisconsin State Horticultural Society, read a brief thesis on "What Ought a Market Gardener to Know?" It abounded in practical and helpful suggestions. Short addresses were also delivered by Mr. J. M. Jordan and Prof. Nipher upon "The Commercial Florist" and "Science and Education," respectively. The last address of the evening was made by Mr. M. G. Kern, who took for his subject "Landscape Gardening." The banqueters dispersed promptly at the stroke of twelve.

Baltimore.

Don't imagine for a moment that because she is not making much noise Baltimore is dead—far from it. She is hustling along, and will keep up with the procession or break a trace, as a little jaunt around among our fellow craftsmen, or a walk around our stores would soon convince you. The scribe had hoped to invite you to take the said jaunt with him next year. But alas, the S. A. F. is not coming, for a good reason, and he can only increase his reputation as a kicker at the established order of things and abuse the delegates from the Monumental city, for not inviting the great society to partake of Maryland hospitality and see the prettiest—well, we will not brag until you get here; but, when you do, you will find that though not so large as some towns, we have the proud satisfaction of being first in some more important particulars than mere size.

To return to the delegates. There have been some tales told out of school, of sundry and several pleasantries which would make you smile, and it is only necessary to ask Wagner how he liked the bathing, or Campbell about his state-room on the Puritan to get a broad grin from any delegate near by. All unite in extravagant praise of Boston and its people, and the first expression on returning from one and all was "You missed it this time, old fellow."

Well something must be missed, but so an equally good thing is not missed we will not cry; and there will be one more fair Baltimorean to welcome you when the S. A. F. finally gets here. This in confidence.

The number of new houses that are going up or are just finished is bewildering. Scarcely a man in the business but has added to his glass to some extent. Mr. Jas. Pentland is erecting a show house with office attached, a very desirable improvement; Mr. Massey, a new man, is putting up a dwelling and greenhouses near Govanstown; Galloway & Cristie, a small house; Dr. Craig, W. M. Stirling, I. H. Moss, Wm. Fraser, The Lanesville Floral Co., Brackenridge & Co., and many others have already added largely to their glass or are doing so; all of which does not look like falling behind, does it?

Then we have the proud satisfaction of feeling that we evolved from our own inner consciousness, that most successful, and necessary thing, an exchange for the sale of cut flowers. From a talk with some of the gentlemen at the head of it, it was learned: that it has survived its first summer and is still in good working order; that it is more necessary and useful to the growers and dealers interested in it, than ever; that the business carried on is so systematized as to make it far more economical, safe and satisfactory to all parties than any commission house could possibly be; and, that such is the quantity of business expected, and flowers to handle they have elected a committee consisting of Messrs. Feast, Seidewitz and McRoberts (two growers and one dealer) to meet weekly, establish prices and send out quotations. Look out for us! We are coming along.

Several months ago there came to the ears of your scribe vague rumors of a great seed, plant and bulb importing house that had been established in Baltimore. No one knew exactly where, or by whom; the advertisement had been seen in papers from Germany, and it was said, gave a glowing account of the greatest importing house in America and located it somewhere on Gay St. Full of generous impetuosity to see this rival of the New Yorkers, in all his glory, the scribe made careful inquiry among the fellow craftsmen in vain; no one knew, or seemed to care anything about him.

At last an advertisement in your valued paper was shown him with the suggestion that it might be the man, and he in fancy beheld his labors crowned with success at last. Being, as is perfectly natural with scribes, of a retiring and modest disposition, he thought to touch hands as it were, with hidden greatness by humbly requesting in writing the pleasure of the address of the great unknown, that he might call upon him and purchase if it could be so arranged some plants. After waiting weary days a coldly courteous reply was received with three small samples, stating that his place was too far away to be visited, but orders accompanied by cash would be filled.

It should be stated that the city directory furnished no clue, as such a name had never appeared in it. The postoffice authorities could not or would not give the desired address, but another institution proved less scrupulous, and through it at last he received the long desired address, 412 N. Gay street.

Number 412 N. Gay street did not impress him as greatly as he had expected. It was a two-story house with a store front to the lower story, the windows

filled, not with beautiful chromos and picked bulbs, but marble and slate mantels. Inside on the floor lay a slate mantle, into the grooves of which a young man was industriously running gold paint. All the store was surrounded and walked in with mantels of all the wonderful colors that emanate from the fertile brain of the slate mantle man, but not a plant, not one bulb, not a single chromo.

"Where is Mr. C. M. H—?" he asked another young man at the desk. He looked up and said slowly, "I don't know." "Does he not live here?" "No." "Where is he then, where can he be found?" "You had better ask the landlord, three doors below."

The landlord, proprietor of a thrifty looking shoe store, was nothing loath to shatter the last remaining fragment of the poor scribe's great importer and capitalist. "Yes, there was such a man in No. 412, he left about January 15, between two days, he owes me rent yet," then with a look of mingled pity and fellow feeling "you are not the first one that asks after him, he owes everybody I believe."

In one of Dickens' best works he gives a graphic description of a rainy night and an equally graphic one of the despondent heart of the hero, by merely describing the continuance of the rain. Similarly it is enough to say of the scribe's spirits that it rained all the rest of the day and the following night.

New York is ahead still, and importing for Baltimore just as usual, and the scribe would rather talk about something else, so good bye.

MACK.

Foreign Notes.

THE NATIONAL Chrysanthemum Society of England has appointed a committee to erect a memorial to the late William Holmes.

Among the plants certificated by the Royal Hort. Society of England October 14 were *Richardia* *ethiopica*, Little Gem, a dwarf variety of the well known "spotted calla," *Bouvardia* *Purity*, *Bowers* large and pure white; *Chrysanthemum* *Annie Clibran*, *Pink Midge*, *Lacroix*.

THE chrysanthemum shows have already opened in England.

GARDENERS' Mutual Improvement Societies are being organized all over England.

AN English gardener speaks of carpet bedding as "tattooing" the lawn.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XVII.

CONSIDERATION—VALID OR OTHERWISE.

Thanks, I'll not object to a boutonniere. Don't make it too large, I'm not on my way to a picnic. Want to ask me a question do you? Well, I'll sit down by these pots of heliotrope for the odors of the law are not always of the most savory sort.

Well, permit me to say that you have done a very foolish thing. Of course, I understand that you did it to oblige "your friend Wigglested." But you were aware that Wigglested was a member of a "committee on decoration," and as such he had no right to draw profit from the order for the flowers.

It was your duty to make out the bill in accordance with fact, that is, set the market value of the goods on the face of the invoice. Then if "your friend Wigglested" wanted to add twenty or twenty-

five dollars to the bill that would be his funeral. Now, by billing these goods to the committee at almost double their market value you have lent yourself to a fraud.

Yes, the law always has the right to inquire into a consideration, no matter how many receipts, releases, statements, etc. have been passed. It is quite true as you say that the expressed consideration is rarely the correct one, but that doesn't excuse you in such a transaction as this.

It is not a fraud to sell a house and lot for \$5,000 and put \$10,000 in the deed at the request of the grantee, for no one looks to old deeds to get at the value of real property. And yet on general principles I say: "Don't do such things."

The grantee might make use of the deed to get a loan from some simple minded person for more than the property would bear. Some people make a living by dealing in mortgages, bills of sale, etc., in which fictitious considerations are set forth. Keep clear of all such transactions. Bear in mind that one such slip as this Wigglested matter may injure your good business name forever.

You say you wouldn't have done it if the flowers had been intended for some individual. Wrong again, my advice to you is to be even more particular with committees than with individuals. Yes, a committee has no soul, but it has something quite as important—a sacred trust to perform. The money is entrusted to it for a specific purpose, and the donors don't expect that any of their money is to find its way into member's pockets.

Hunt up "your friend Wigglested" and force him to refund the money at once, and let it be a lesson to you. Call no man friend who asks you to commit the pettiest fraud for his personal benefit.

Now in this matter of consideration the law will not undertake to say whether a consideration is adequate or not, that's some question of fraud is raised. Take for instance the case of the transfer of a house and lot for "natural love and affection and the sum of one dollar." The courts would uphold such a transfer if, at the time of making, the grantor was perfectly solvent.

You must understand that the moment a man's assets are weighed down by his liabilities that moment he becomes a trustee for his creditors. True equity requires him to treat all alike and make no preferences and turn over all his property for their benefit. If after knowing yourself to be insolvent you sell any piece of property the law will require that the consideration shall be a good and valid one. And no matter how you may see fit to "slaughter" your own goods, as guardian, agent, trustee or representative of any character, you will not be permitted to accept an inadequate consideration.

But some considerations are good in the eye of the law although they are apparently very slight. For instance, a mere promise to do or not to do a certain thing is a good and valid consideration to uphold a contract.

The law will not interfere to protect stupid people from the hands of sharp dealers in the absence of fraud. For example, you have a perfect right to allege that a stock of dahlia bulbs has been frost-bitten and to offer a mere song for the lot. Even if it turns out that they were all good the consideration paid must stand, for the law allows a man to resort to all sorts of means—this side of fraud, to decry the thing offered for sale and secure it at as low a price as possible.

But on the other hand, the seller has no

such right to deceive. He must stick to the truth, that is if he opens his mouth at all. If he says "the seed I'm selling you will produce a double variety" he will be held to his representation, for in this case the buyer is absolutely at his mercy.

Now, while the law allows a sane man to part with his property for an inadequate consideration, it will not allow a minor or a lunatic or a habitual drunkard to do so. Nor will it allow a man not living with his wife to secure her release of dower unless the consideration be adequate.

The rule pretty generally is, that one promise is a good enough consideration to support another promise. This is so in all breach of promise cases; but in these there need not be an actual promise, the law will infer one if the circumstances point that way, just as in some states it will infer marriage when a man lives with a woman and permits the world to think that he is lawfully married to her.

You ask me about seals. I may say in a word that in some states in contracts executed under seal there is a presumption of a good and valid consideration. But presumptions don't always stand. They may be overturned, and seal or no seal, the law will look into the matter not collaterally perhaps, but in an action brought for the purpose of setting aside the contract.

Considerations often fail. In such cases the contract is void. For instance, you make a contract with me that if I will defend you in a certain action you will set an arbor vite hedge around my place and guarantee it against one winter's frost. It would not be difficult to determine whether the consideration on your part failed or not, but on mine it would be very difficult. For if you lost you would at once be inclined to charge neglect and want of skill on my part as an excuse, and that would open up a very ugly fight.

What the law does in such cases? Well, the general rule is to look and see whether there has been a substantial compliance, a fair and reasonable performance. The law will not undertake to split hairs or debate questions which may be decided two different ways with apparent justice.

But there is another aspect to this question of consideration to which I desire to call your attention briefly. A consideration must always be a lawful one and one not against good morals. For instance, you have no right to "compound a felony" in order to secure personal profit.

If a young man in your employment steals a hundred dollars, your promise to his father not to prosecute provided he returns the money, is null and void and punishable by law, and the father may, whether the case be dropped or not, recover the money back again if he sees fit to bring an action.

You ask me whether if a consideration was found to be partly illegal the fraud would taint the whole transaction? I'll give you a case in point. Suppose you owe me \$500 and suppose I detect you committing some crime and therefore I propose to you in consideration of my promise not to give any information or testify against you. Where you execute a mortgage for \$1,000 on your house and lot I need scarcely tell you that such a mortgage could not be enforced. Part of this transaction is perfectly good, but equity would not step in and soil its hands by helping me get my legal and lawful dues. On the other hand, the mere fact that a bill of goods contains one or more items of contraband would

not enable the purchaser to repudiate the whole bill.

There is still another rule—equity will not enforce a consideration which is hard or cruel. You recollect the case in the Merchant of Venice, in which the Jew asked for a pound of flesh? The court said: "Take it, but if you shed a drop of blood we betide you."

UNCLE BLACKSTONE.

Catalogues Received.

Reasoner Bros., Manatee, Fla., plants and nursery stock; Glen & Drake, Columbus, Ind., nursery stock; F. S. Peer, Mount Morris, N. Y., plants and small fruits; J. Elletton, Auburn, N. Y., grapes; A. M. C. Jongkindt Coninck, Dedemsvaart, Netherlands, hardy plants and trees; Dammann & Co., San Giovanni a Teduccio, Naples, Italy, seeds; Fred W. Kelsey, New York, trees, shrubs and hardy plants; J. C. Vaughan, Chicago, bulbs and plants; Albert M. Her, Lancaster, Pa., plants; Alex. Dickson & Sons, Belfast, Ireland, roses; V. Lemoine et fils, Nancy, France, plants; S. B. Field, Roselle, N. J., rooted cuttings. Wm. Chappelow, Monrovia Cal., plants, bulbs and nursery stock; Pitcher & Manda, Short Hills, N. J., special offer of orchids.

Crude Oil for Fuel.

Has any reader of the FLORIST met with success in the use of crude oil for fuel in heating greenhouses? If so, will he please describe the manner in which the oil is used? J. A. BALMER.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED.—By an energetic young man, who resigned his last place in one of the leading English nurseries; wages not so much an object as the right kind of experience. Address: BOOL, Ithaca, N. Y.

FOR SALE.—No. 7 brick set. Furman street boiler; will heat 7,000 to 8,000 square feet of glass; used one season; in perfect order. H. E. BLAUVELT, Nyack, N. Y.

FOR SALE.—Florist business, thoroughly equipped and stocked. Doing a fine business at home and abroad. In a growing Ohio city. Must sell for good reasons. A good investment. Four houses. The real estate for sale or lease to purchaser. Price \$3,000. Address: BARGAIN, care Am. Florist.

FOR SALE CHEAP.—Residence of seven rooms, double greenhouse, each 16x30, office and packing room, 16x32, well stocked; located in Holton, Kansas, county seat of Jackson Co.; college town; a good florist cannot help but succeed. Poor health makes me sell that I may change climate. Address: MRS. J. A. THOMAS, Holton, Kansas.

FOR SALE.—A florist establishment, one greenhouse 15x18 and two 15x30 feet each, and a cold water (Weathered) six acres of good land, some wood and pasture, plenty fruit, dwelling house, barn and other out-buildings; good well and cistern. All buildings new and in good order. One hour from New York City and one mile from depot. Price \$4,800 or will sell the greenhouse property separate for \$2,500. Address: P. O. Box 119, Ramsey, N. J.

WANTED.

One or two thousand plants of SMILAX in 2½-inch pots. Must be good stock. State price f. o. b. Address: O. P. BASSETT, Hinsdale, Ill.

WANTED.

By an A. No. 1, practical business man and florist, SITUATION, either as foreman, manager or will take working interest in some good establishment where ability and knowledge equals capital. Can give excellent references. None but good parties need reply. Address: COMPETENT, care Chicago Floral Co., Chicago.

10,000 General Jacq. Rose Plants, one and two year old.

Extra large two year old, \$2000 per 100. " fine one year old, 3 ft. and up, \$15. " fine one year old, 2 to 3 feet, \$10.

JORDAN FLORAL CO., 706 Olive Street, ST. LOUIS, MO.

FIVE NEW AMERICAN ROSES

Probably the most interesting Novelties of the coming season, and those that will attract the widest attention of the Trade on both sides of the water, are our:

NEW AMERICAN SEEDLING ROSES,

HENRY M. STANLEY,
MRS. JESSIE FREMONT,
MAUD LITTLE,
ARL RIVERS,
GOLDEN GATE.

Five new Teas of Sterling Merit, originated, grown, and tested in this country, and sent out on their merits at reasonable rates. Orders can be booked now, and will be filled in rotation as received—April 1st next. Full descriptions ready Jan. 1st. Prices, \$1 each; set of 5 for \$5; two of each, 10, for \$9; five of each, 25, for \$20.

ADDRESS: THE DINGEE & CONARD CO.,

Rose Growers, West Grove, Pa.

ROSES

FOR IMMEDIATE PLANTING

Duchess of Albany.....	3 inch. \$1.00
Mme. Hoste.....	7 00
La France.....	5 00
Contiers.....	4 00
Perles.....	4 00
Niphotos.....	4 00
Mermets.....	4 00
Brides.....	4 00
Bon Silenes.....	4 00
Gen'l Jack, 2-in. 40 per 1000; 3-in. \$8.00 per 100.	

H. Perpetual, 40 var. 2 in. \$5000 per 1000.

SEND FOR LIST

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

HARDY * ROSES

—FOR—

FORCING.

Strong dormant plants, grown one year in the open ground.

PAUL NEYRON, DIEBACH, MAGNA

CHARTA, JACQUEMINOT,

and others, 2 ft. high, price \$12.00 per 100; also

MME. LUIZET, strong, budded plants,

2½ to 3 feet of wood, extra fine plants,

\$22.50 per 100.

ADDRESS: W. S. LITTLE,

COMMERCIAL NURSERIES, ROCHESTER, N. Y.

Mention American Florist.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 4 and 6-inch pots. The best and newest CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.

IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address:

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

ROSES

FOR WINTER BLOOMING.

10,000 healthy Roses from 4-inch pots, consisting of

MERMETS, BRIDES, PERLES,

NIPHOTOS and BON SILENES,

at \$10.00 per 100.

Also 5,000 field-grown JACKS, 2 to 3 ft.

\$10.00 per 100.

DAISIES of the finest strain from seed-

bred \$3.00 per 1000.

JAMES HORAN, FLORIST,

BRIDGEPORT, CONN.

Mention American Florist.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, 50 cts; Column, \$1.50,
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.

No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

"THE GOLDEN FLOWER"

There can be no more certain indication of the increasing interest in the chrysanthemum among the general public than the fact that the well known Boston firm of L. Prang & Co. has considered it a good business venture to publish a most elaborate book devoted to descriptions of various varieties illustrated with colored plates executed in the highest style of art and apparently regardless of expense.

A copy of this beautiful book, just issued, has been sent to us by the publishers.

The varieties illustrated by colored plates are: Kioto, Medusa, Jardin des Plantes, Tokio, Laciniatum, Lirion B. Bird, Cullingfordii, Moonlight, M. E. Nichols (October Beauty), Peter the Great, John Thorpe, Mrs. C. H. Wheeler, Ceres, Mrs. C. H. Hardy, King of the Crimson, Golden Dragon and Christmas Eve.

Each plate is accompanied by an appropriate verse written by some well known poet, many of them original and all enclosed by symbolic borders engraved for the work. Heavy plate paper is used throughout. The book is a splendid example of the perfection to which the art of printing has been brought, and is a beautiful tribute to the popularity of the "Queen of Autumn."

A VERY PRETTY custom is that inaugurated by one of the public schools of Houston, Texas. October 4 was set apart as "Flower Day" on which occasion twelve pupils read short essays on various flowers and floral subjects. Though the pupils ranged from only 11 to 16 years of age the essays, as reported in the *Houston Post* of Oct. 5 were excellent, each one presenting a great deal of information in a condensed form and in a very attractive way. The subjects of the twelve essays were: "My favorite flower," "Cape Jessamine," "The flowers at home," "Geraniums," "Magnolias," "Roses," "Lilies," "The Oleander," "Wild flowers," "The most beautiful flower," "My visit to the flower garden," "Uses of flowers." This opens up a very inviting field to the children and cannot fail to stimulate their interest in and love for flowers. Would it not be wise for the readers of the *FLORIST* to suggest the adoption of a similar "Flower Day" in their cities, where opportunity offers.

IN REPLY to A. S. P. Ampelopsis Veitchii clings to the wall in ivy fashion and never by long tendrils grape vine fashion; and 3 or 5 parted leaves often occur upon vigorous plants of it. Ampelopsis Roylei is another sort of the same kind, but of ranker growth. Whether your plant is this or not we can not tell without seeing a specimen of it. Ampelopsis quinquefolia

is the true Virginia creeper, it abounds everywhere in the woods crawling along the ground or climbing up into the branches of trees. It climbs by means of rootlets as well as by tendrils, but oftenest by tendrils; there is a particular variety of it, however, that attaches itself to walls and tree trunks by rootlets more than by tendrils, but this variety is uncommon in cultivation.

MR. AVERY GALLUP, of Denver, Col., passed through Chicago November 3, returning from a four months trip to Europe. He says the City Park of Dublin was the finest he saw. Metal wreaths with China flowers are much used in London. Small white stuffed birds are extravagantly used on fine floral pieces both in Paris and London. Finds much to admire in tuberosus begonias. The Bamboo was a fine decorative plant as used in Italy.

A NEAT pamphlet on "Orchids for beginners" is being distributed by Messrs. Pitcher & Manda short Hills, N. J. It gives cultural notes on the best low priced orchids suitable for the production of bloom. This firm is now holding an exhibition of chrysanthemums and orchids at their establishment at Short Hills, and will give a similar exhibition at the Madison Square Garden New York City, November 24 to 30.

ARE THE young florists of America who are seeking a higher education making use of the books treating upon subjects bearing upon the profession which are to be found in the public libraries with which every American city of any consequence is now blessed? In the public library of every large city there is a mine of stored up knowledge which may be had without money and without price by those who seek it.

THE HOLLYHOCK DISEASE.—For the benefit of those who are specially interested a reprint of the article on the hollyhock disease has been issued for special distribution, and may be obtained by applying to the Secretary of Agriculture, Washington, D. C., or to the Chief of the Division of Vegetable Pathology.

WE HAVE received from the Herenden Mfg. Co., Geneva, N. Y., a copy of a photograph of the S. A. F. taken at Mr. Hunnewell's, Wellesley, Mass., last August, which they have been sending complimentary to all those who were in the group. It is a very effective ad. for the Furman boiler, made by this firm.

BILBERGIA "SPLENDENS."—Mr. Harold Otter, Doylestown, Pa., calls attention to this as a neglected plant deserving of more attention. The plant referred to is a showy thing but like many plants of the Bromeliaceae is of doubtful value to the average florist.

WE HAVE received from Mr. H. G. Higley, Cedar Rapids, Iowa, a tuberous begonia bloom measuring 4½ inches across. Quite a bloom for the original package state to produce. We should add that the bloom is scarlet in color.

MRS. J. S. R. THOMSON, the florist of Spartanburg, S. C., has been appointed an alternate to represent the state of South Carolina as one of the lady managers of the World's Columbian Exposition of 1893.

A PARAGRAPH that is going the rounds of the daily press states that a florist of Sing Sing, N. Y., is a direct descendant of Pontius Pilate.

Society of American Florists.

The annual report for 1890 will be ready in a few days and will be mailed at once to all members whose dues for the current year are paid. The list of members shows a gratifying increase, and there is much valuable information contained in the report. The progressive florist can not afford to be without it. Members whose dues are still unpaid are requested to forward the amount to the secretary and the report will be mailed in return. Parties observing errors or omissions in the list of members are requested to send prompt notification of the same, and it is especially desired that the secretary should be informed at once in case of the death of any member so that it may be properly recorded.

A number of members who attended the Boston meeting have sent letters to this office enquiring for the address of the photographer who took the group picture at Mrs. Hayes'. The gentleman's address is J. W. Porter, 64 Warren street, Roxbury District, Boston, Mass. Mr. Porter desires me to announce to those members who paid him for pictures that they shall receive them very soon, the delay having been caused by a press of business and a preponderance of dark weather.

Mr. Chas. Storer is at work on an enlarged copy of the group picture made at Mr. Hunnewell's. Should it prove satisfactory copies will be for sale in a few days. WM. J. STEWART, Secretary.

Coming Exhibitions.

November 10-14, Philadelphia.—Chrysanthemum show, Penna. Hort. Society.

November 11-12, Toronto, Ont.—Chrysanthemum show, Toronto Gardeners' and Florists' Club.

November 11-13, Boston.—Chrysanthemum show, Mass. Hort. Society.

November 11-13, Montreal, Canada.—Fall show Montreal Gardeners' and Florists' Club.

November 11-13, London, Ont.—Chrysanthemum show, Forest City Florists' and Gardeners' Society.

November 11-13, Newport, R. I.—Chrysanthemum show, Newport Hort. Society.

November 11-14, Detroit, Mich.—Chrysanthemum show, Detroit Florists.

November 11-14, Baltimore.—Fall exhibition Gardeners' Club.

November 11-15, Cincinnati.—Chrysanthemum show, Cincinnati Florist Club.

November 11-15, Indianapolis.—Chrysanthemum show, Society of Indiana Florists.

November 11-15, Louisville, Ky.—Chrysanthemum show, Louisville Florists.

November 12-13, Worcester, Mass.—Chrysanthemum show, Worcester County Hort. Society.

November 12-14, Hartford, Conn.—Chrysanthemum show, Hartford County Hort. Society.

November 12-14, Minneapolis, Minn.—Chrysanthemum show, Society of Minnesota Florists.

November 13-15, Springfield, Mass.—Chrysanthemum show, Hampden Horticultural Society.

November 13-15, Buffalo, N. Y.—Chrysanthemum show, Buffalo Florist Club.

November 14-15, Providence, R. I.—Chrysanthemum show, Rhode Island Hort. Society.

November 19-21, Utica, N. Y.—Floral exhibition, Florists' Club of Utica.

WE HAVE received from Robert Manning, secretary, part one of the transactions of the Massachusetts Horticultural Society for 1890.

Wholesale and Retail Prices.

Is it not the tendency among florists who do a retail and wholesale business to sell to the general public at wholesale prices?

I have before me a circular of a rose house offering 16 regular size roses by mail for \$1, price charged the trade by these same growers is \$7 up to and over \$18 per 100, freight paid by buyer. They kindly offer to mail roses to the trade if 30 cents per 100 or \$3 per 1000 is added; to retail customers as seen above they pay postage, a direct discrimination against the trade. An advertisement appeared recently in your columns of roses, and the same firm offered in the *Country Gentleman* roses at same price to the general public.

Numerous other instances might be cited, but for the present these will suffice. The remedy is on the part of the trade to boycott all florists who do business as above.

A. A. MILLER.

Oakdale Station, Pa.

[We do not believe that there is such a "tendency." There may be isolated cases such as noted, but it is difficult to believe that there is any considerable number of those in the trade who would be so unwise.—Ed.]

CARNATIONS.

	Strong in.	Strong in.
	Per 100	Per 100
Portia.....	\$ 6 00	\$ 9 00
Hitz's White.....	6 00	9 00
Chester Pride.....	6 00	9 00
Wm. Swayne.....	6 00	9 00
Century.....	7 00	10 00
Christinas.....	10 00	15 00
Primula Oboena, strong, 2½ inch, 4 00		
Geraniums, choice varieties, 3-inch, 3 50		
Asparagus Tenuissimus, 2½-inch, 4 00		
Begonias, large stock, all size 25 and vars.		

address

N. S. GRIFITH,

JACKSON CO. INDEPENDENCE, MO.

(Independence is well located for shipping, being 8 miles east of Kansas City.)

Mention American Florist.

FARLEYENSE

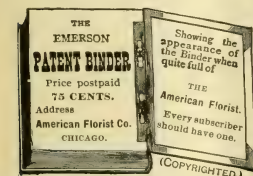
Good strong plants, in 4-inch pots,

\$50.00.....per 100.

FISHER BROS. & CO.

MONTVALE, MASS.

Mention American Florist.



FOR SALE.

THE CUTS

USED IN ILLUSTRATING THIS PAPER.

Write for prices on any which you have seen in previous issues and would like.

AMERICAN FLORIST CO.

CHICAGO.

Wholesale Markets.

Cut Flowers.

	BOSTON, Nov. 1.
Roses, Bon Silene.....	\$2 00
" Niphetos.....	1 00
" Perles, Niphetos.....	5 00 @ 10 00
" Mermets, Brides.....	5 00 @ 10 00
" La France, Hostes.....	8 00 @ 10 00
Carnations.....	1 00 @ 2 00
Valley.....	50 @ 75
Tuberose.....	1 00
Common.....	1 00
Chrysanthemums, common.....	1 00 @ 2 00
Chrysanthemums, specimen.....	4 00 @ 12 00
Smilax.....	12 50
Adiantums.....	1 00 @ 50
Asparagus.....	50 00
Cyclamens.....	3 00
Lapagerias.....	3 00

PHILADELPHIA, Nov. 1.

Roses, Beauties.....	15 00 @ 25 00
" Albany.....	3 00 @ 4 00
" Perles, Niphetos.....	5 00
" La France.....	5 00
" Mermets, Brides.....	5 00
" Pierre Guillots, Hostes.....	5 00
" Gontiers.....	2 00 @ 2 50
Valley.....	1 00 @ 1 50
Carnations, long.....	1 00 @ 1 50
Smilax.....	15 00 @ 20 00
Adiantums.....	1 00
Violeta, single.....	35 @ 50
Violeta, double.....	35 @ 50
Bouvardia.....	1 00
Chrysanthemums.....	1 00 @ 20 00

NEW YORK, Nov. 1.

Roses, Bon Silene.....	\$1 00 @ \$2 00
" Gontiers.....	2 00 @ 4 00
" Perles, Niphetos.....	2 00 @ 4 00
" Souys.....	2 00 @ 3 00
" Wattevelles, Catin.....	4 00 @ 5 00
" Mermets, Brides.....	4 00 @ 5 00
" La France, Albany.....	3 00 @ 5 00
" Hostes.....	3 00 @ 4 00
" Beauties.....	15 00 @ 25 00
Valley.....	5 00 @ 10 00
Smilax.....	15 00 @ 20 00
Carnations, long.....	1 00 @ 1 50
Carnations, long, white.....	1 00 @ 1 50
Adiantums.....	25 00
Asparagus.....	75
Mignonette.....	1 50 @ 2 00
Violeta.....	1 00 @ 1 50
Chrysanthemums, fancy.....	15 00 @ 40 00
Asparagus plumosus.....	75 00
Common chrysanthemums, per bunch.....	1 00

CHICAGO, Nov. 3.

Roses, Perles, Niphetos.....	\$3 00 @ \$4 00
" Gontiers.....	2 00 @ 4 00
" Bon Silenes.....	1 00 @ 2 00
" Mermets, La France.....	4 00 @ 5 00
" Brides.....	3 00 @ 5 00
" Am. Beauties.....	12 50 @ 15 00
" Mermets, Dukes.....	4 00 @ 5 00
Carnations, short.....	75 @ 1 00
Carnations, long.....	1 00 @ 2 50
Smilax.....	15 00 @ 20 00
Tuberose.....	1 00 @ 1 25
Adiantums.....	75 @ 1 00
Violeta.....	75 @ 1 50
Chrysanthemums.....	1 00 @ 1 50
Bouvardia, heliotrope.....	1 00

WM. J. STEWART,
Cut Flowers & Florists' Supplies

WHOLESALE

67 BROMFIELD ST., BOSTON, MASS.

J. M. McCULLOUGH'S SONS,

Wholesale Commission Dealers in

CUT FLOWERS

134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES:

Prize Chrysanthemums and Orchids:

CUT FLOWERS.

The choicest Cut Flowers, of our own growing, at lowest market rates, shipped C. O. D. Use A. F. Code when ordering by telegraph. Telephone connections. For prices, etc., address

J. L. DILLON, BLOOMSBURG, PA.

Amelopsis Veitchii.

Strong 2½ inch pots, \$3 00 per 100:

Jack Roses.

3½-inch pots, \$8 per 100; \$70 per 1000.

Address

J. G. BURROW,

FISKILL, N. Y.

Mention American Florist.

THOS. YOUNG, JR.,
WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,

And the Choicest ROSES for the

fall and winter season.

Mention American Florist.

W. S. ALLEN,

WHOLESALE DEALER IN CUT FLOWERS,

36 EAST 23rd STREET, NEW YORK.

ESTABLISHED 1877.

Price List sent upon application.

W. F. SHERIDAN,

Wholesale and Commission Dealer in

CUT FLOWERS,

No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

JOHN YOUNG,
WHOLESALE FLORIST

56 WEST 30TH STREET,

NEW YORK.

E. H. HUNT,
WHOLESALE FLORIST

79 Lake Street, CHICAGO,

(Successor to Vaughn's Cut Flower Dep't.)

All Flowers in Season.

Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

All Cut Flowers in season. Orders promptly shipped.

Store open until 9 P. M. Sundays until 2 P. M.

ALL SUPPLIES. WIRE WORK A SPECIALTY.

LaRoche & Stahl,
Florists & Commission Merchants

—OF—

CUT FLOWERS,

1237 Chestnut Street, PHILADELPHIA.

Consignments Solicited. Special attention paid to shipping.

Mention American Florist.

OUR NEW

DIRECTORY

giving a complete and accurate list of the Florists, Nurserymen and Seedsmen of the United States and Canada is

NOW READY.

Price, \$2.00.

AMERICAN FLORIST CO.,

54 La Salle Street, CHICAGO.

On Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. MCCULLOUGH, Cincinnati, president; JOHN FORTLER, Jr., Boston, secretary and treasurer. Their annual meeting at Cincinnati, June, 1891.

Some Facts and Figures About Advertising. SECOND PAPER.

Below we give a tabulated statement of the amount of money spent by us in advertising seeds the past spring in a few of the leading papers and magazines, with the number of answers received from each and the apparent cost of each application.

We say apparent cost for in the experience of careful records kept for some years past we find that on an average in making application for catalogues one in five mention the name of the paper in which the advertisement was seen.

only one in five mentioned any paper, and yet we can hardly credit all the applications for catalogues to newspaper advertising, for the good will of an established mail business of its own force bring in a number of applications for catalogues independent of any newspaper advertising. We would consider it fair to attribute to newspaper advertising 80 per cent of the applications received each spring, thereby dividing the apparent cost of 89½¢ per application by 4 we have a net cost of about 22¢ for each application received from newspaper advertising. We would here state that this average net cost from the above papers is also the average net cost per application from all papers in which we have advertised the past season.

Now this cost per name may seem extremely high, and it is indeed a high cost, but from conversation with other advertisers we believe it is no higher than the

inated covers, with beautiful colored plates of rare new flowers and choice vegetables, painted from nature by a prominent New York artist," and we would have received a flood of postal cards, mostly from women and children applying merely for the pictures. But of course such applications are not desirable and it is our aim to so word advertisements as to interest and draw replies only from those who really have occasion to use seeds. Therefore in our display advertising in every case we ended with such words as "Order now and ask for," implying that to get the catalogue it was necessary to send an order or at least to show an intention of ordering eventually.

The third column of the above list is headed "number of direct sales," this means the number of orders received direct from advertising a cheap 25 cent collection of flower seeds.

It will be noticed that the *Argosy*, New York *Ledger* and *Metropolitan* of New York, all papers of very large circulation, brought in very meager returns, emphasizing what we said in our last article that it does not pay seedsmen to advertise in literary weeklies which circulate mostly in cities and large towns. Neither do we consider trade journals good mediums for seed advertising; notice the high cost per application in the *Foultry World*, which is a valuable medium for advertising thoroughbred poultry, yet its readers look only for poultry news and do not seem to be attracted by advertisements of other goods.

Summary. Our candid opinion as to the results of newspaper advertising during 1889 and 1890 is that it has not been productive of direct profits; by this we mean not only does display advertising fail to show sufficient direct returns but also that catalogue advertising, counting cost of the applications, plus the cost of the catalogues and the correspondence which they entail, fail to bring an appreciable profit.

We consider, however, all newspaper advertising to be largely dependent upon the influence which cannot be traced but which it undoubtedly exercises over the mind of the general public, particularly of that portion of the public who have already received the seedsmen's catalogue whose name is thus kept before them.

We would be very much pleased to have other advertisers give their experience with figures and relative cost as we have done above and we feel quite sure that the net cost of each application attributable to advertising will prove to be in the neighborhood of 20 cents each, provided the advertiser has not begged the readers to send for his very handsome catalogue, colored plates, etc., whether they expect to buy or not.

W. ATLEE BURFEE.

Philadelphia Oct. 17th, 1890.

C. RAOUX, importing agent at New York, gives notice that he will retire from business April 15, 1891.

MR. ANTHONY HOWCROFT, late of the London seed firm of Howcroft & Watkins, died October 16, aged 75 years.

PASSED through Chicago recently: Mr. Herbert, representing James Vick, Rochester; Thos. Griswold, Wethersfield, Conn.; Aaron Low, Essex, Mass.

Tuberous Begonias.

In a late number Mr. W. Falconer mentioned seeing the best tuberous begonias he had seen this season growing in frames. He would oblige me and I

	Total Cost.	Number of applications.	Number of direct sales.	Total number of replies naming paper used.	Apparent cost of each application.
American Cultivator.....	\$ 32.60	20	2	22	1.48
Argosy.....	47.51	6		6	7.92
Baltimore American.....	25.87	11		11	2.35
American Grange Bulletin.....	13.80	12		12	1.15
American Rural Home.....	107.81	142	14	156	.69
American Agriculturist.....	214.50	274	37	311	.69
Atlantic Monthly.....	54.99	4		15	3.67
Omaha Weekly Bee.....	50.37	53	3	56	.90
Weekly Constitution.....	27.60	47		47	.58
Weekly Courier Journal.....	127.01	22	14	36	3.53
Congregationalist.....	70.38	20	62	82	.86
Christian Advocate (N. Y.).....	153.72	40	60	100	1.54
Christian Union.....	119.03	43	127	170	.70
Christian Advocate (Nashville).....	58.21	31	35	66	.88
Central Christian Advocate.....	57.34	26	21	47	1.22
Christian Advocate (St. Louis).....	46.74	29	37	66	.71
Christian Herald.....	120.36	50	50	100	1.20
Century Magazine.....	496.10	312	306	618	.80
Cosmopolitan.....	54.98		22	22	2.50
Delmar.....	225.40	117	336	453	.50
Farm and Fireside.....	305.79	704	61	770	.40
Farmers' Review.....	18.98	40	12	52	.43
Farm Journal.....	282.00	447	204	651	.43
Globe-Democrat.....	120.75	70	20	90	1.34
Gleanings in Bee Culture.....	14.17	12		12	1.18
Harper's Magazine.....	169.77	34	246	280	.61
Home and Farm.....	135.85	160	22	182	.75
Housekeeper.....	150.42	70	97	167	.90
Weekly Inter Ocean.....	158.13	60	12	72	2.19
Weekly Interior.....	52.13	14	27	41	1.27
New York Ledger.....	250.00	16	43	59	4.24
Lippincott's Magazine.....	20.70			1	20.70
Metropolitan.....	148.37	15	1	16	7.15
Mirror and Farmer.....	36.96	12	1	13	2.82
Orchard and Garden.....	28.98	24		24	1.21
New York Observer.....	39.74	15	1	16	2.48
Ohio Farmer.....	102.00	60	11	71	1.44
Popular Gardening.....	100.30	16	60	76	1.32
Poultry World.....	13.80	4		4	3.45
Scribner's Magazine.....	187.13	74	112	186	1.01
Sunday School Times.....	297.65	72	110	182	1.63
St. Nicholas.....	42.34	10	22	32	1.32
Weekly Tribune (N. Y.).....	114.12	40	5	45	2.54
Voice.....	211.14	20	60	80	2.63
Witness.....	73.36	63	84	147	.50
Western Christian Advocate.....	57.35	22	20	42	1.36
Weekly World.....	72.45	60		60	1.21
Youth's Companion.....	750.17	247	956	1,203	.62

\$6,051.01 3,645 3,325 6,970 \$101.44

By dividing the total cost of the advertising in the above papers (amounting to \$6,051) by the total number of replies mentioning these papers (6,970) it will be seen that the apparent average cost per reply was 89½ cents. As previously stated, of the total number of applications for catalogues received the past spring

average cost of desirable applications.

From the same amount spent in newspaper advertising we could easily have received many more applications had we worded our advertisements differently. For instance, we could have described our Farm Annual as "A superb book of over 100 pages, elegantly bound in illum-

don't doubt many other growers of this beautiful plant by inserting in your valuable journal, the mode practiced in growing them. Whether they are started in pots, when planted out and their subsequent management in summer and autumn. GEO W. CHAPIN.

Rooted Cuttings for Cash Buyers COLEUS.

I can supply ten best varieties in any quantity. Also

GERANIUMS, ALTERNANTHERAS AND FUCHSIAS.

—SEND FOR PRICE LIST.—

S. B. FIELD,

ROSELLE, N. J.

Mention American Florist.

DOUBLE WHITE PRIMULAS.

From 3-inch pots, well rooted. \$3 and \$15 per 100. Cash with order.

S. TAPLIN,

Fort St. West, DETROIT, MICH.

Mention American Florist.

FOR SALE.

Marie Louise plants, strong. A few hundred Cran, single blue, at \$2.50 per 100.
Several hundred Magnolia grandiflora, from 10 to 14 inches high, 2 years old, \$10.00 per 100.
Cash with orders for the above goods will receive prompt attention, at 10 per cent off.

Also I will sell or take other stock in exchange for a large lot of Erianthus Ravene. Eulalia Zebrina and other variegated grasses. Prices on application.

M. TRITSCHLER, Nashville, Tenn.

Choice Stock Cheap.

Dracena Indivisa, 4-inch.....	Per 100 \$10.00
Ampelopsis Veitchii, 3-inch.....	3.00
Lantana Borbonica, 3-in., 1 year.....	8.00
Aspidistra Variegata, 5 inch.....	\$9 per doz.
Pandanus Veitchii, 4-inch.....	\$12 per doz.
ROSES from OPEN GROUND, Deliver in Dec.	
Jacqueminot.....	Per 1000 \$70.00
Hermosa.....	60.00
Agrippina.....	60.00

J. H. CAMPBELL & SONS,
3601 Germantown Ave., PHILADELPHIA, PA.

20,000 DEUTZA GRACILIS

2 year old plants, very fine and Bushy, especially adapted for forcing.

No. 1, 1 to 1 1/2 ft., \$6 per 100.

No. 2, 8 to 12 in., \$4 per 100.

Send 10 cents for sample, also trade list with a full line of Nursery Stock.

C. RIBSAM & SONS,
Trenton, N. J.

MUST BE SOLD for want of room—about 40,000 CHRYSANTHEMUMS

Of about size and fine shape, all colors and colors mostly in later sorts, all left out of the selection \$3 per 100, 24 \$15, F.O.B. Also, 10,000 GIBSON'S SELECT Hybrid PANSIES for winter blooming, now ready. By express, 60c per 100. By mail, 60c per 100.

J. C. GIBSON, Woodbury, N. J.

CHRYSANTHEMUMS.

Stock plants now in flower and ready to deliver. We carry 600 varieties. A list of stock plants and prices will be sent you early in November. This is the time of year to buy Chrysanthemums for propagating—while in flower.

Average price of stock plants, 10 cents.

We offer for the first time, the EARLIEST Yellow Flowering Chrysanthemum, "GOLDEN ALPHA,"

blooms as early as October Beauty. A good yellow four inches in diameter. Have been cutting flowers from these plants since October 1. Price \$2.00 per stock plant. For Spring delivery in March, \$10 per 100.

We call attention to the variety called "STONEWALL JACKSON" (Crystal Wave) as being absolutely one of the very best late flowering sorts for cut flower work.

Stonewall Jackson (Crystal Wave, Mrs. Potter).—Very pure satiny white; petals quite long; beautifully undulating; about 1 1/2-inch wide, same width from base to tip; shows center a little for a time, but petals soon cover it. Lasts remarkably after being cut. Stout plants, 50c.

V. H. HALLOCK & SON,
QUEENS, N. Y.

HYDRANGEA GRANDIFLORA.

We ask the attention of Dealers and the Trade to our Large Stock of HYDRANGEA GRANDIFLORA, nice, well-grown plants at very low prices, viz:

HYDRANGEA GRANDIFLORA, 2 year, 2 to 2 1/2 feet, strong. Price, \$7.00 per hundred; \$60.00 per thousand.

HYDRANGEA GRANDIFLORA, 2 year, second size, 18 to 24-in., good. Price, \$6.00 per hundred; \$50.00 per thousand.

Samples on application. Correspondence solicited.

Address **THE DINGEE & CONARD CO., WEST GROVE, PA.**

CHRISTMAS ROSES.

If you require fine clumps of home grown Christmas Roses, the large white flowering variety, full of flower buds, either for planting or forcing, order at once.

PRICES FROM \$7.25 TO \$24.00 PER HUNDRED.

THE LARGEST STOCK IN THE WORLD TO SELECT FROM.

Bulb catalogue and special prices free on application.

Cash with order or good references required from unknown correspondents.

HERMAN BUDDENBORG,
WHOLESALE BULB GROWER,

HILLEGOM, = HOLLAND.

Geo. Jackman & Son

Begin to offer a large and well grown

Stock of the following:

ROSES—In choice and exhibition varieties.

RHOODENDRONS—Of the best named sorts, and

Hybrid Seedlings well set with buds.

AZALEAS—Good named sorts, also Mollis and Ponticum set with buds.

CONIFERS—In large collection.

SHRUBS—Ornamental and Flowering.

FOREST TREES—Of sorts, all grown by thousands.

CLIMBERS—In variety, including their celebrated Clematis.

STOCKS—Fruit and Manetti, fine.

Catalogues free on application.

TERMS—Cash with order, or satisfactory trade reference from known correspondents.

WOKING NURSERY,

WOKING, ENGLAND.

Mention American Florist.

KALMIA LATIFOLIA.

Plants of every size can be fitted with a small ball.

—BEAUTIFUL SEEDLINGS—

2 years, very fine.....	Per 1000 \$8.00
2 years, transplanted, very fine.....	11.00
3 years, very fine.....	14.00
3 years, transplanted, very fine.....	16.00
4 years, transplanted, very fine.....	19.00
5 years, transplanted, very fine.....	25.00
5 and 6 years, transplanted, extra.....	35.00
Small bushes, fine.....	Per 100 6.00

Good bushes with buds.....20.00

Same size without buds.....17.00

Large bushes with buds.....40.00

Same size without buds.....37.00

Also extra fine **RHOODENDRONS**, large lot with or without buds, all sizes, at the most advantageous rates upon application.

HERBACEOUS PRONIES, fine assortment of colors, without names, at \$5 per 100; \$40 per 1000.

5,000 CLEMATIS, STRONG.

A full assortment of 1st class **FRUIT STOCKS** still on hand, all sizes; and **General Nursery Stock**, seeds of Pear and Apple, and any quantity.

For any of the above, address

ANDRE L. CAUSSE,

33 & 35 Liberty St., NEW YORK CITY.

or to **LETELLIER & FILS,**
CAEN, CALVADOS, FRANCE.

New York.

Business quiet as yet.

Society always hesitates how to open the season.

American Beauties are as they have always been since their introduction, queen of the rose market; it is the best selling and most satisfactory rose and the present demand far exceeds the supply.

It is to be very much regretted that the New York Horticultural Society have decided not to hold their annual chrysanthemum show this year.

There is an unusually large amount of chrysanthemums in the market this year, as many of the large growers intended them for exhibition.

Violets are coming in very fine.

Scallan exercised his usual good taste and genius in his elaborate decorations for the wedding of Miss Lily Wilson to Count Levenhaupt, nephew of the Swedish Minister of War.

Thorley intends holding a weekly exhibition of chrysanthemums at his beautiful store on Broadway.

Fred Henning, formerly with Klunder, has opened a flower store at 39th street and Broadway.

Among the visitors during the week were J. C. Vaughan of Chicago; Robt. Craig, Philadelphia; John N. Champion, New Haven. JOHN YOUNG.

Chicago.

The election of officers at the meeting of the Horticultural Society of Chicago held October 28 resulted as follows: George Schneider, President; W. H. Chadwick, 1st Vice-President; F. C. Vierling, 2nd Vice-President; Edward G. Uihlein, 3rd Vice-President; James D. Raynolds, Secretary; G. L. Grant, Assistant Secretary; Gen. A. L. Chetlain, Treasurer. An executive committee was also provided for. It will consist of the officers of the society and the following: C. R. Williams, J. A. Pettigrew, J. T. Anthony, Jonathan Periam, J. C. Vaughan and Dr. Wm. E. Clarke. The society starts with a membership of over forty, the majority being well-to-do amateurs, among whom there is great enthusiasm. The first regular meeting of the society will be held in January. The admission fee has been fixed at \$5, this amount to include dues for the first year, the annual dues after the first year to be \$3.

The Chicago Floral Co. has built a new palm house 25x125 and 18 feet high at their place on the Grand Boulevard. The meeting of the Florist Club held last Thursday was a hummer. There was a large turnout, this being the last meeting before the exhibition. The membership of the club is still growing. The "adjoined sessions" seem to be quite a feature. Considerable talent has been developed at these sessions and some great scores have been made.

GREEN and HOLLY,
DUTCH BULBS,
VALLEY PIPS, SPIRÆA JAPONICA,
HARDY ROSES, TUBEROSES.
Mushroom Spawn, fresh stock.
Write for prices.

W. W. Barnard & Co.,
Successors to HIRAM SIBLEY & CO., Chicago,
6 and 8 North Clark Street,
CHICAGO.

FLORISTS CAN SAVE MONEY

By carefully examining our list of Seasonable stuff offered here. We wish to call attention to a few reasons why we can save you money. We handle a full line of every item you ordinarily need. We buy it in quantity for cash and will sell at a moderate profit. Submit to us a list of all your wants in our stock for the year or for six months, and if you live west of the Allegheny Mountains we promise you that we can lay the entire supply at your door, freight paid, cheaper than you can do elsewhere, even if you purchase each item from first hands. Combine your orders, get wire, foil, moss in season and by freight. Many florists double their expenses in express charges and telegrams by neglect. Try the plan of keeping a standing order with us for moss, stakes or like standard stock and let small items go with such stock, always making 100-pound lots or over, and thus losing no weight and saving express charges. We can and will save you money on your entire supply of items here named or others.

J. C. VAUGHAN, CHICAGO.

Mail address, P. O. Box 688.

TELEGRAPH IN OUR STORE, 146-48 W. WASHINGTON STREET.

Rooted Cuttings.

My circular and price list is now ready, and can be had on application; it is interesting reading to any florist who buys Carnations, Coleus, Alternantheras, Geraniums, Cannas, etc.

Pansies.

One day's mail brought me orders for 18,200, and one week's mail for 37,500 plants. Is it any wonder I am sold out? This year's sales prove conclusively that there is no better strain in the market. And next season I shall grow not less than half a million plants.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

VERBENAS.

20 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$25.
Rooted Cuttings of same, 100 \$1; 1000 \$9.
Fine stock Heliotrope, 2½ in. \$3 per 100.
Double Fringed Petunias, 12 vars. 2½ in. \$4.00 per 100.
Adiantums Cuneatum, Decrum and Gracillimum, 5-inch, strong, \$15 per 100.
Primroses, double, per 100 \$12.00.
" single, per 100 \$8.00.
Obeonica, per 100 \$6.00.
Geraniums—latest Novelties.
Latania bolbonica, 5 in. \$4.00, 4-in. \$3.00 per dozen.
Miscellaneous stock of all kinds.

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

Mention American Florist.

Laurel Festooning.

WREATHS, TREES, FERNERIES, E c, Etc., for the HOLIDAYS.

HARTFORD & NICHOLS,

Wholesale and Retail Dealers in Moss, Bouquet Green, Cut Ferns, and Festooning of all kinds.

18 Chapman Place, BOSTON, MASS.

Mention American Florist.

AURATUM LILIES, (just rec'd.)

BOUQUET GREEN, fine.

CHINESE NARCISSESS, in quantity.

L. CANDIDUM, surplus, low.

L. LONGIFLORUM.

H. HARRISII, 5 to 7-in.

LILIUM RUBRUM.

EVERGREEN WREATHING, to order

HYACINTHS, mixed and named fine bulbs, new lot, duty off, at close rates.

TUBEROSE BULBS.

SCARLET IMMORTELLS.

FAIRY FLOWERS.

CAMPAS PLUMES.

CAPE FLOWERS.

BASKETS, \$1.600 worth new and standard styles rec'd Oct. 1.

JARDINIERES, a fine ass't at \$5 to \$12 per doz.

GLASS VASES for Chinese Narcissus (new) doz., \$2 25.

TULIPS, good supply.

CROCUS, fresh stock in.

ROMAN HYACINTHS.

FLOWER SEEDS.

LILY OF THE VALLEY, Nov. 10.

SPIREA CLUMPS, Nov. 10.

HOLLY, it gets there.

MISTLETOE, good or no sale.

KOSTER & CO.,

BOSKOOP, HOLLAND,
OFFER:

Azalea mollis, transplanted in 1890, nice plants raised from seed of the best only.
100 plants, 15-20 buds..... \$12.00.
100 plants, 20-30 buds..... 15.00.

Paeonia sinensis,

100 in the best sorts..... \$10-\$14.00.
100 without names..... 8.00.

Rhododendron hybr. arb. transplanted in 1890 100 in the best sorts, covered with buds..... \$25-\$40.00.

Clematis, 100 in best sorts, 20- 25.00.

Staphylea Colchica, Lilacs,
Deutzia, Etc., Etc.
Mention American Florist.

DIRECTORY.

Every Florist, Nurseryman and
Seedsmen should have one.

AMERICAN FLORIST CO., Chicago.

ORIGINAL AND LARGEST GROWERS OF

LILIAM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 130 in length, o a crop of *Liliam Harrisii* in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it sits in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his own use. We hear it said occasionally that *Liliam Harrisii* flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last faster.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have earned so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as HEADQUARTERS FOR THE BERMUDA EASTER LILY; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

—* HALF A MILLION BULBS. *

Be sure you get the genuine *Liliam Harrisii*. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant *L. Longiflorum* in Bermuda, planting it with *Harrisii* to increase their stock rapidly when *Harrisii* was very scarce, thus mixing the stock irretrievably thereby rendering it absolutely valueless for forcing and we have known instances where these mixed bulbs have been sold to large growers at the genuine variety, where here loss has resulted, and buyers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Indianapolis.

At the State Fair recently held in this city the new Floral Hall was opened but found to be too small, the fruit department taking up two-thirds of the hall. The hall and all the arrangements were very unsatisfactory to the florists; the least possible amount of money was spent, consequently everything had a cheap appearance except the outside view of the hall, which was acceptable.

First premiums were about equally divided among three firms, Anthony Wiegand, Bertermann Bros. and Mrs. Chas. Riemann. Frank Saack also carried off several premiums. A very creditable display was made by several lady amateurs, the best ever made. About \$800 was offered in the floral department through the efforts of our society.

At the last meeting of our local club, October 2, (which by the way is in a flourishing condition) a resolution was adopted recommending Mr. J. D. Raynolds for Commissioner of Horticulture at the World's Fair, and a committee was appointed to work with that view in hand. Mr. J. J. B. Hatfield read a very interesting paper on Ancient Horticulture; it was very instructive and carefully written.

The chrysanthemum show committee also had a meeting. All arrangements for the coming event are well in hand, a great success is assured, a carefully worked out slip of information regarding seedling premiums is printed and can be had on application to the secretary. The warm weather has pushed chrysanthemums forward and some fear was expressed that they would come too early, but a cool spell is on now and we hope it will continue.

At a recent opening of a dry goods store by an English syndicate about 10,000 rosebuds were given away.

Bertermann Bros. have made needed additions to their store room on Massachusetts Ave., and their greenhouses on East National Road.

Our new florist, John Hartje, who built a new place not long ago, is bringing some fine violets into the market.

On account of favorable weather outdoor stuff is taking a new start and plenty of outdoor flowers is the result.

The Society of Indiana Florists, also the Indianapolis Florists' Club, extend a cordial invitation to all to attend our coming exhibition. W. B.



MUSHROOM SPAWN
GENUINE MUSHTRACK

10 lbs 25 lbs 50 lbs 100 lbs
\$1.20 \$2.75 \$5.00 \$8.00

JOHN GARDINER & CO.
PHILADELPHIA, PA.



KILLS MILDW AND FUNGUS GROWTH.
GRAPE DUST.
Sold by Seedsmen.
Mention American Florist.



THIS CUT
FOR YOUR CATALOGUE. The Towel, introduced last season, sell at sight. For transplanting, lifting and setting plants as an all around "Handy Dagger" it has no equal. \$7.50 per dozen, postpaid. THE FLORAL SUPPLY CO., BINGHAMPTON, N. Y.

A. BLANC,

ENGRAVER FOR FLORISTS.
PHILADELPHIA, PA.



Electro of this Cut, \$2.00.

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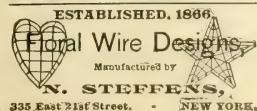
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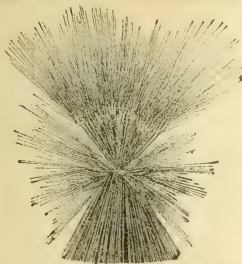
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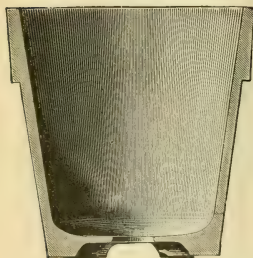
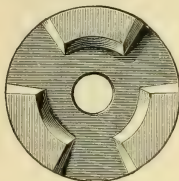


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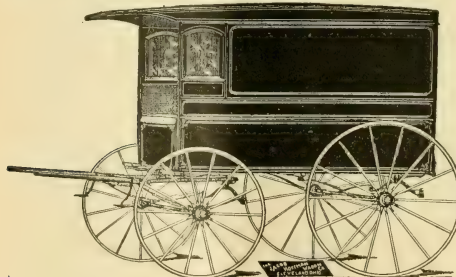


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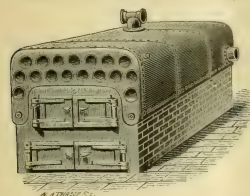
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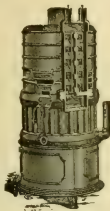
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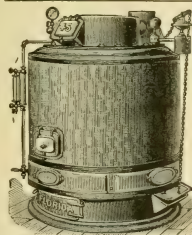
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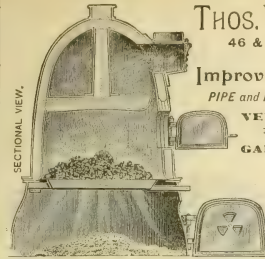
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CHICAGO, ILL.

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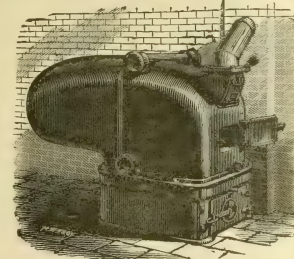
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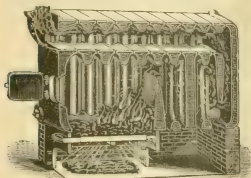
APPLETON, Wis.

DENNIS MEIDAM.

A DISPATCH from Lockport, N. Y., which appeared in the New York Sun of November 2 states that an English syndicate is negotiating for the purchase of twenty of the principal nurseries of Geneva, Rochester, Newark, Dautsville, Batavia and Lockport. The syndicate is said to have a capital of \$5,000,000. The report states that a representative of the syndicate has paid 5 per cent of the purchase price for the option to buy, the option to hold good until January 20, 1891.

APPLETON, Wis.—Dennis Meidam has built a new house 20x75 for carnations. Trade is better here than last year.

C. H. AVERY, of Madison, Wis., is reported assigned to C. P. Chapman.



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Vol. VI.

CHICAGO AND NEW YORK, NOVEMBER 13, 1890.

No. 128.

THE AMERICAN FLORIST

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THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

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54 La Salle Street, CHICAGO.

Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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Insures greenhouses against damage by hail.
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Florists' Protective Association.

Gives information to members regarding the financial standing and business integrity of those in the trade.
H. B. BEATTY, Sec'y, Oil City, Pa.

American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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We had arranged to have for this issue an illustration giving a general view of the Chicago exhibition, but through the carelessness of an engraver's assistant the drawing was lost when too late to replace.

Chrysanthemum Shows.

Chicago.

The third chrysanthemum show of the Chicago Florist Club, held last week was a very marked improvement over any of the club's previous efforts in this line. There was a large display and the great improvement in the quality of the plants and cut blooms of chrysanthemums over the exhibit of 1889 was the subject of much favorable comment on the part of all who were present last year. The attendance was also considerably in excess of last year, showing that the popular interest in flowers is growing and that the exhibitions are having the desired effect upon the general public. The daily press gave unstinted praise, and very full reports appeared daily in all the leading papers.

The large floor space was laid out in garden style, no benches being used except at the sides and end for cut flowers and floral arrangements. Palms and laurels were interspersed among the groups of chrysanthemums, creating a very pleasing effect.

In chrysanthemum plants Mr. O. P. Bassett of Hinsdale had by far the largest display. There were six large and five small groups of his plants and among them some very fine specimens. He ran heavy to L. Canning in white and the great value of this variety was again strikingly demonstrated. He had made several entries in nearly all the classes and his plants were all so excellent that in many cases he captured second as well as first prize, and for "best fifty plants in not larger than 10-inch pots" he received all four prizes, the four amounting to \$120. Mr. Bassett also took first, \$20, and second, \$12, for best six white; first, \$20, for best six yellow; first, \$20, for best six pink; first, \$20, for best six red and first prize of \$6 each for specimen white, specimen yellow, specimen pink, specimen bronze and specimen red.

Messrs. John Goode & Co. had a fine lot containing the main display of standards. They received first, \$15, for best two standards, white, first \$15 and second \$10, for best two standards yellow, first, \$15, for best two standards, pink, and third for specimen yellow, pink and bronze. The plants stood in the form of a wide ribbon bed across one corner of the hall and were very effective. Mr. McAdams, who is the Co. of this firm, is to be congratulated on the improvement in his plants over those of last year.

Mrs. S. P. Gardner of Hinsdale, who swept the plant premiums up last year was unfortunate this year in having her plants backward in blooming, though she sent in plants for one large group which were a pretty feature of the show. She received second, \$12 for six pink, same for six red, second, \$4 for specimen yellow.

same for specimen pink, same for specimen bronze and specimen red.

Mr. Frank Leslie of Lake Geneva, Wis., had a large group of excellent plants which made a fine display, but Mr. Bassett had swept the field in the class in which he had entered.

The only entry for best 50 plants grown to single stem and single flower in not over 6-inch pots was made by Mr. M. A. Hunt, Terre Haute, Ind., and he was awarded the first prize of \$50. The plants were in 4-inch pots, ranging from 2 to 3 feet in height and each one bearing an immense blossom. The blossoms of Excellent and P. B. Mead were especially fine. The group was a very taking feature of the show, crowds being continually gathered around it.

N. Singler received third, \$8 for six white, second, \$12 for six yellow.

A. H. Saxen took third, \$8 for six yellow, same for six red, second, \$10 for two standards white, and third, \$6 for two standards yellow.

The special price of \$10 offered for best specimen white grown from seed by exhibitor went to Henry Stuttle of Batavia, and Mr. John Lane's special sweepstakes prize, a carved chrysanthemum cane, for largest number of names of American origin went to John Goode & Co.

There was a very large display of chrysanthemum cut blooms, in which appeared some excellent flowers. There were several entries by florists from a distance, among which were collections from N. Smith & Son, Adrian, Mich., M. A. Hunt, Terre Haute, Ind. and Frank B. Smith, Danville, Ill. The awards were as follows.

Best general display of cut chrysanthemum blooms, both quality and quantity to be considered in making the award, 1st \$25, E. Weinbocher & Co.; 2nd \$15, Jno. Forster; 3rd \$10, Jno. Goode & Co. Best collection cut sprays in vases, of one of a kind, 1st \$15, E. Weinbocher & Co. Best twelve naturally grown sprays, 1st, \$5, E. Weinbocher & Co.; 2nd, \$3, Jno. Goode & Co.; 3rd, \$2, Frank Smith. Best 100 blooms, two of a kind, 1st, \$20, N. Smith & Son; 2nd, \$10, H. Stuttle; 3rd, \$5, Frank Smith. Best twelve blooms, one of a kind, 1st, \$5, M. A. Hunt; 2nd, \$4, N. Smith & Son; 3rd, \$3, H. Stuttle.

The special premium of \$25, offered by Mr. W. H. Rand for six orchids, six varieties in bloom went to Charles Reissig.

In cut roses Mr. M. A. Hunt walked away with many of the first prizes, and his blooms were very fine. He took first honors for twelve Mermetts, Brides, Gontiers, Perles and Niphetos. O. P. Bassett took first for American Beauty and La France and second for Wootton, Perle and Niphetos. E. Weinbocher & Co. were awarded first for Bon Silene and second for American Beauty, Mermet and Gontier, and Geo. Klehm second for La France. W. A. Kennedy was given first for any new

variety for a dozen fine blooms of Meteor, and second on Brides.

E. Weinhoeber & Co. were to the front in carnation cut blooms taking first honors for twenty-fives of Grace Wilder, Silver Spray, Garfield, Hinz's White and maroon color. J. C. Vaughan got first for Tidal Wave and N. Singler took the second prizes on Silver Spray and Tidal Wave.

Among the chrysanthemum blooms shown by M. A. Hunt were three which occupied a vase by themselves and which attracted much attention. They were a 9-inch bloom of Mrs. Frank Thompson and very large flowers of the Bride and Edwin Molyneux.

Pitcher & Manda, Short Hills, N. J., made a small display of specimen chrysanthemum blooms cut with very long stems, and Messrs. H. E. Chitty, Paterson, N. J., and John McGowan, Orange, N. J., each made displays of carnation cut flowers; both of the latter including blooms of Lizzie McGowan, the new white.

Among the roses shown by E. Weinhoeber & Co. were fine blooms of Madame Cusin and Ma Capucine. J. C. Vaughan displayed a vase of finely colored blooms of Meteor, and Brown & Canfield, of Springfield, Ill., showed some specimen Duchesses of Albany and La France. O. P. Bassett also displayed a vase of fine Duchesses of Albany in his collection. J. C. Vaughan exhibited blooms of a carnation bearing the descriptive name "American Flag." The red and white stripes were there and all the flower lacked was the stars in the field of blue.

J. T. Anthony was an easy winner of the \$50 prize for best collection of orchid cut flowers, having a very fine display, including a very considerable variety for the season. E. Weinhoeber took the \$3 prize for best 100 vases.

The plan of having some new feature in the floral arrangements each day was found to be an excellent one in maintaining interest in the exhibition, and there were a large number who visited the exhibition each day on this account. On the first day prizes of \$20 and \$10 were offered for best arranged baskets of any style, and prizes of \$40, \$25, and \$15 for best arranged basket of orchids. There were five entries in the first named class, George Klehm receiving first for a large handle basket of magnificent La France roses and adiantum ferns. Every rose was a specimen and the arrangement was very graceful. E. Weinhoeber & Co. were second with a very elegantly arranged handle basket of Beauties, Mermet's, Valley and Farleyense ferns, a sash of pink ribbon being attached to the handle. In the entries for orchid basket, J. T. Anthony was unfortunately debarred from competition through coming in late, owing to a delay in receiving part of his flowers. It was a very rich arrangement and contained a very large assortment of fine flowers, including cattleyas, oncidiums, odontoglossums, vandas and cypripediums. First premium went to George Klehm for a round flat basket of mainly oncidiums gracefully arranged with adiantum ferns. Second went to E. Weinhoeber & Co. for an elegant handle basket filled with oncidiums, cypripediums, odontoglossums and zygopetalums in adiantums, the handle wound with lavender ribbon and a sash of same draped from one side. Frank Bentley took third with an opera basket of cattleyas, cypripediums, laelias, lycastes and oncidiums very daintily and effectively arranged with fronds of Adiantum Farleyense.

There were five entries for best mantel

decoration on the second day, the entries being by Messrs. J. T. Anthony, E. Weinhoeber & Co., Charles Reissig, F. F. Bentley and Joseph Curran.

The first prize of \$75 was awarded to E. Weinhoeber & Co. Their mantel was very gracefully decorated with adiantum ferns, with a splendid specimen of A. Farleyense on the small shelf at the top. At the right several handsome sprays of oncidiums and other orchids stood out from among the ferns while blooming vines of Langerias rosea and alba were effectively draped on both sides. The base was filled with decorative plants, a mass of long-stemmed white dahlias being placed at the left. The arrangement was by Mr. Wm. J. Smyth, in whom Messrs. Weinhoeber & Co. have a very able decorator.

The second prize of \$50 went to Charles Reissig, whose right hand man is Mr. P. J. Hauswirth. This arrangement was also mainly of adiantum ferns, a very handsome specimen of A. Farleyense being very effectively placed at each side. In the center appeared a mass of orchids loosely arranged, while the base was filled with palms and similar decorative plants.

J. T. Anthony received the third prize of \$25, and that his mantel was worthy of a prize of five times that amount there was no question. Every plant used was a specimen and certainly no better collection of decorative stuff was ever used in a mantel decoration in this city.

At the top were adiantum and nephrolepis ferns and rex begonias, and in the mass of adiantums on the main shelf were a few broad-leaved dracaenas effectively placed. At the base was a splendid lot of decorative plants, a small specimen of *Caryota urens* being used at each side with magnificent effect.

The mantel entered by F. F. Bentley was of ferns, chrysanthemums and decorative plants, and that entered by Joseph Curran was ferns, with a huge bunch of pink carnations at each side and palms at the base.

On the third day the contest was for three prizes aggregating \$100 for table decoration, table set for twelve persons. There were five entries.

Charles Reissig took the first prize of \$50. The table was a large round one with a six pointed star for a center piece. The center of the star was a low mound of Adiantum Farleyense, the points being alternately of pink and white flowers, arranged with adiantums; the flowers in three of the points were La France roses, two were of Bride roses, and one of lily of the valley. The plates for the ladies were at the points of the star and the favors at each were of flowers to match the point. The table was set by one of Chicago's leading clubs and the silver and glassware was very rich.

The second prize of \$30 went to Joseph Curran. His table was a three cornered one, with a center piece of Farleyense ferns in the form of a three-leaved clover, from which rose a number of cypripediums. A bunch of the fronds of Adiantum princeps was placed at each corner while large fronds of the same adiantum were pinned to the folds of the table cloth as it fell from the sides. It was a unique arrangement which was much admired.

George Klehm received the third prize of \$20 for a round table with a twelve pointed star for a center piece. The points were alternately of La France roses and lily of the valley, and the favors were of flowers to correspond with the point opposite the table.

Walter Kreitling's decoration was upon

a large round table in the center of which stood a handsome silver bronze table lamp with a pink silk shade. The globe of the lamp stood well up from the table so that there was no obstruction of the view across the board. Around the base of the lamp was a low mound of Mermet roses and adiantum ferns about two and one-half feet in diameter, while loose flowers of the same rose were scattered on the cloth so as to make a border about a foot wide around the mound, giving the whole central arrangement a diameter of about four and one-half feet. The favors were Mermet roses with a frond of adiantum.

Frank Bentley had a long table of conventional form with a center piece of Grace Wilder carnations and adiantum ferns, and near each end a smaller arrangement of Roman hyacinths and adiantums with a small plant of *Cocos Weddelliana* in the center. The favors were of Grace Wilder carnations combined with adiantums.

The special prize of \$20 for best basket of roses, the same day, brought out but two entries, the florists having had about all they could attend to with the elaborate dinner table decorations. However, the two baskets entered were both excellent. The one shown by George Klehm and which received the prize, was a large side basket, containing a great number of fine specimen blooms of Duchesses of Albany, among adiantum ferns, with two clusters of Perle roses effectively placed at each side. The other entry was a large handle basket from E. Weinhoeber & Co. and contained Mermet and Bride roses among adiantum ferns. The handle was wound with pink ribbon and a broad sash of same depended from the side.

Another feature of this day was a premium of \$50 offered for the best general collection of cut flowers. This was designed to bring into the exhibition on the third day a fresh lot of bloom to brighten up the display as the flowers entered on the first day began to lose their freshness. E. Weinhoeber & Co. took the plum with a very excellent collection of roses, carnations and chrysanthemums occupying fully fifty lineal feet of table space.

On the fourth and last day George Klehm won the prize of \$35 for best center piece suitable for buffet table. His entry was a large one-sided basket of Perle roses relieved by adiantums, surmounted by a loose cluster of sprays of yellow chrysanthemums combined with *Asparagus tenuissimus*. Long sprays of asparagus also lead from the center piece to the four corners of the table where they were fastened by sashes of bronze yellow ribbon.

Two prizes were also offered on the last day for best design of chrysanthemums, suitable for dinner or luncheon table. The first prize of \$20 went to George Klehm, for a large four-leaved clover of *Gloriosum* chrysanthemums loosely arranged with adiantum ferns. The second prize of \$10 was taken by E. Weinhoeber & Co. with a round flat filled with *Gloriosum* chrysanthemums combined with *Asparagus tenuissimus*. In the piece entered by Joseph Curran two large loosely arranged bunches of chrysanthemums, one bronze and the other yellow, rose at opposite angles from a base of hardy ferns with a band of autumn leaves at the point where the stems of the two bunches met.

During the exhibition J. C. Vaughan added to his exhibit a vase of the new Waban rose, which may be described as a small Mermet of very deep color. He also displayed a vase of Pierre Guillot.



SKETCH OF FIRST PRIZE TABLE DECORATION AT THE CHICAGO EXHIBITION

Among the side attractions of the exhibition was a display along the wall in frames of the beautiful colored petals of chrysanthemums which appear in "The Golden Flower," the handsome new book published by L. Prang & Co. of Boston. Messrs. Prang took this way of bringing to the attention of Chicago flower lovers the new publication.

The weather was perfect during the first three days of the show, but Friday afternoon and evening it rained dismally and the attendance fell off accordingly. The largest attendance was on Thursday when there were 2,599 paid admissions. The daily press was remarkably liberal in giving complimentary notices and reports each day during the show and many of the reporters did very clever work, and the club expended \$400 in advertising in the amusement columns of the various papers.

The Chicago *Herald* has won the hearts of all the florists by its extreme liberality. It not only offered a special prize of \$100, but gave more space to the exhibition during the week than any other paper, and the Sunday before the show it gave four columns to a very cleverly written and well illustrated article prepared by Mr. Sam. Clover, a member of the *Herald* staff, who is a genuine flower-lover. Mr. I. W. Scott, the publisher of the *Herald* has a lively interest in matters floricultural. He is a son of the late D. Wilmot Scott, of Galena, Ill., who was for so many years secretary of the Nurserymen's, Florists' and Seedsmen's Association (now the American Nurserymen's Association).

Orange, N. J.

This show opened on the 4th inst. under very favorable circumstances and considering that it was election day, the attendance was very good. The exhibition on the whole is superior to any the society has held, the cut flowers are particularly good in all classes, also the standards and small plants in 6-inch pots. Among the winning lots of fifty, those exhibited by John Farrell, gardener to Mr. Wm. Barr of Orange, are some superb flowers, notably Mrs. Chas. Leboeuf, Mrs. Wm. Barr, Mrs. George Bullock, Mrs. Pratt, L. Caning, etc.

In the second premium lot exhibited by

Mr. Thos. H. Spaulding, Orange, N. J., Ivory, the new pearl white was particularly fine; also Wm. H. Lincoln and some very fine new seedlings.

Judge Benedict, of Staten Island, also showed a very fine lot in this class. In the classes for standards, John Farrell was first for 10 plants, also for 6 plants and 1, and second for 3, all of which were particularly fine and well grown. For three standards, Mr. Spaulding was first with extra fine plants. In single specimen plants John Holterman, gardener to J. Crosby Brown, Esq., of Orange, was first with a fine plant of Puritan, also for three plants. For three grafted standards John Farrell was again first; the same exhibitor also had some very fine ferns and took first premium in each class.

In plants exhibited not for competition, but which added very materially to the whole show, was a large and very attractive group of palms and other foliage plants exhibited by Robert McArthur, florist of Orange, and four *Latania borbonica* measuring 15 feet through and one *Pandanus utilis* fully 15 feet high, shown by J. Hayes, gardener to O. D. Munn, Esq., to which the committee recommended special commendation.

For the best 25 plants, chrysanthemums, arranged for effect, J. Holtzman was first with a fine display. The gold medal offered by Mr. Jas. R. Pitcher for the best seedling plant, John Thorpe won, with a magnificent dark crimson variety named G. W. Childs; this will make a sensation in the chrysanthemum world when introduced into commerce.

For basket of chrysanthemums, T. H. Spaulding won first, and K. Kleeg of Orange, second, with a novelty in the floral line; it consisted of a basket of good flowers and ferns frozen in a large block of ice, measuring 10 inches thick by 22 wide and three feet high; it attracted many admirers.

A silver cup offered by the New Jersey Social Florist Club for the best display of chrysanthemums arranged for effect was won by John N. May, Mr. Tricker being awarded \$15 special prize for his exhibit in the same class, which was also very fine. Carnations formed quite an important feature as the exhibit was large and very fine all throughout. John McGowan had Lizzie McGowan in excellent condition. H. E. Chitty had several varieties very

fine. G. Bergman, of Flatbush, took first prize for his new striped variety American Flag, which was greatly admired.

Among amateurs there was some very nice exhibits from A. Ballouch and R. F. Baldwin in chrysanthemums.

In roses the exhibits were very fine, E. Asmus taking first for Mme. de Watteville and Perle des Jardins; J. N. May first for American Beauty, Bride, Niphetos, Mme. Hoste, Duchess of Albany, Mermet, Gontier, La France, and for the best new rose with the Red Mermet Waban, which the committee also highly commended. Julius Roehrs also exhibited his new early hybrid in this class which was greatly admired by all who saw it.

For best 100 violets Louis Conrad, gardener to E. P. Steven, Esq., was first with a very fine lot; several others exhibited fine flowers.

A large bank of chrysanthemums not for competition put up by Richard Purdue made a very attractive display.

The society gave the Memorial Hospital a table for selling flowers, etc. which was well patronized. This was a double advantage, giving the Hospital funds to help the sick and advertising the show, which helps the society.

The display of seedling chrysanthemums was a great feature and never has there been seen so many really good ones shown before.

For the best seedling two blooms Mr. Keane, Englewood, was first with Fred Dornier, a rich creamy white, the petals being very long and twisted, having center petals of rich pink. The younger eight inches in diameter, full and double, very fine. Mr. Keane also showed a sulphury white reflexed double flower of great merit named Jno. Betterman. These have passed into the hands of Hill & Co., Richmond, Ind. Messrs. Pitcher & Manda were second with Gracie Hill, a tawny shaded blush flower finely incurved.

For the silver cup offered by Mr. J. R. Pitcher, T. H. Spaulding was first with six fine varieties, viz.: Jno. Firth, incurved silvery pink with tips of light yellow, extra; Lily Bates, a rich rose reflexed pleating flower; Onward, reflexed white high center, pink tips; Ethel Paul, very large full globular white of the Domination type; Ethiopien, crimson incurved with lighter reflex; Mrs. D. D. L. Farson, a lovely shade of pink, high center and whorled. All these flowers were finely grown and averaged six inches in diameter.

For the gold medal offered by Jas. R. Pitcher for the best seedling plant, John Thorpe won with a superb rich Jacqueminot crimson flower, perfectly reflexed petals three-fourths inches wide, flowers six and one-half inches in diameter, named George William Childs. Among other meritorious seedlings were J. C. Vaughan, rich plum amaranth; Ernest Asmus, amber; John H. Taylor, pink, white reflexed, large; Tommy Adams, bright gold; T. H. Spaulding, brilliant red; D. S. Brown, incurved yellow; H. M. Boies, rose; W. S. Kimball, blush; Hicks Arnold, bronze incurved; John Eyerman, rose pink; Frances A. Spaulding, lemon yellow; George Savage, white; John Goode, pink and lemon; Mrs. C. D. Adams, whorled white, lemon center. All of the above seedlings are of merit.

Other seedlings of merit were shown under numbers, which precludes notice.—NOTE.—All seedlings should be named when put in competition.

A new opponent in the seedling arena appeared in Wm. Craig, a son of Robert Craig.

Among the very fine cut flowers the following new varieties of '80 were produced and A. No. 1, Molly Bawn, J. T. Emten, Mrs. H. Jamieson, Alberti Linden, Ada Spandling, Flora McDonald (fine), Aureole, Cyclone, Rohallion, Mimic Wamwaker, Mrs. C. Dissell and H. E. Widener.

In the Osterich Plumbe section Messrs. Peter Henderson & Co. show the pink Louis Bochner magnificently, twelve flowers, each being six by four inches in size. It is an acquisition. In this section there are now in sight a yellow, a bronze, a peach and a half dozen whites. Look out for them. JOHN THORPE.

Eric Pa.

The Eric Chrysanthemum Club's annual show for the year 1890, took place in the rink on East Eleventh street, November 4, 5, 6 and 7, and it has been a pronounced success in every sense of the word. The club's experience is yet limited and its membership is not large, but the exhibition has been creditable in a high degree and the public appreciation of the club's efforts has been testified in the liberal patronage accorded. The show was not confined to the chrysanthemum, although that flower was made the principal feature. There were five general exhibits by florists, of general greenhouse plants, including palms, bananas, screw pines, ferns and other foliage plants, each exhibit by a florist being required, however, to contain at least fifteen chrysanthemum plants in full bloom. There were also several table displays of roses and other cut flowers, all of which were good. The greenhouse displays were for exhibition purposes only, and to afford variety and lend a pleasing feature to the general effect. It may be said of all that they were good. The splendid palms, loaned by Hon. W. L. Scott, were very effective. They are probably the best in the state.

Coming down to the competition it is well enough to begin with the distinctive flower of the show. The best chrysanthemum display, without referring to the decision of the judges, was that of Mr. H. Tong. It included, in the display of potted plants and cut flowers, at least 100 varieties, many of them seedlings of his own propagation and some of them recently christened by him subject to the approval of the National Association. One he named Wm. L. Scott—a splendid large flower, sometimes 30 inches in circumference, with incurved petals of deep or dark crimson upon the upper or inner surface, and pale pink or whitish on the outside or lower surface. The Thora rose is a pale primrose yellow, straight petals, large flower and very profuse bloomer. The Nellie A. Tong is crushed strawberry in color, quite flat but large, a free bloomer and easy to cultivate. The Mathilde Townsend is cream color to blush, according to the light in which it is grown, large flower with incurved petals and received a large amount of admiration. The Massasanga—named by the newspaper reporters—is a deep rose pink, with twisted incurved petals, good size and handsome. Mr. Tong's display of chrysanthemums covered a space of 600 square feet and was the most attractive feature of the show.

Next in importance to Mr. Tong's was the exhibit of Mr. Henry Niemeyer. He displayed fine examples of forty named varieties including the Mrs. Alpheus Hardy. They were all on long stems and advantageously placed so that the effect was admirable. None were of his own origination, however, although he is pre-

paring himself to give more attention to this in the future.

Mr. John Trast had many chrysanthemums in his display, but none of them of special interest. Mrs. W. Niemeyer had a good exhibit of twenty or more varieties.

Pitcher & Manda, of Short Hills, N. J., exhibited twenty choice named varieties, and Peter Henderson, of New York exhibited the Louis Bochner.

In carnations, there was some rivalry. H. E. Chitty, of Paterson, N. J., exhibited eight named varieties, and Mr. Tong had seven. John McGowan, of Orange, N. J., had also an exhibition of carnations. In the white varieties, Mr. Chitty was easily the best, but in colors Mr. Tong was quite his equal.



CHRYSANTHEMUM GROWN TO SINGLE STEM
AND SINGLE FLOWER

The exhibit of roses was very fine and the rivalry was between H. Niemeyer and Mrs. W. Niemeyer, of Erie. The former had the greatest number of varieties, but the latter the largest display.

The amateur department was well cared for and highly creditable. Taken altogether the show of 1890 was an improvement over that of 1889. Mr. Tong's display of growing chrysanthemums was inferior to that of a year ago, but his table display was much better, and so was every other department of the show.

First premiums were awarded to H. Tong for best 25 plants, 12 varieties; best 12 plants, 6 varieties; best 6 plants, 6 varieties; best specimen plant; best 150 cut blooms, not less than 25 varieties; best 60 blooms, ten varieties; best display cut blooms in vases; best collection hegonias. Mrs. W. Niemeyer received first for largest and best display of roses, largest and best display of cut flowers of any kind, corsage bouquet, anchor of cut flowers and center piece for table. H. Niemeyer took first for best design in cut flowers, floral harp, basket design of chrysanthemums, 12 plants geraniums and hand bouquet of chrysanthemums. Y.

Short Hills, N. J.

From the appearance of the number of chrysanthemums grown around New York, it is evident that no change in the interest taken in them is yet apparent, neither is the limit to perfection of form and color in the flower yet reached; for some of the seedlings now in flower at Pitcher & Manda's exhibition of chrysanthemums, show a marked advance upon previous types.

This exhibition as arranged by this firm, is again creditable to their capability as growers and business men. The plants are grown with skill for the purpose for which they are intended. This purpose being not large specimen plants, but plants that take up but little room, yet producing fine blooms; most of the plants are grown in boxes containing eight to twelve, each plant averaging four to six flowers.

Among the seedlings noticed as improved forms, was one that is a decided advance upon "Mrs. Alpheus Hardy." The flower is more hairy, of a rounder form, and produced with a shorter neck, and stiffer stem. Among the yellows, a seedling of a pale lemon shade promises to be quite an acquisition. It is incurved, of fine form and striking appearance. A pink seedling also very fine, from 9 to 10 inches in diameter. Some other seedlings are also desirable, but as none are yet named description would at present be of little advantage.

Of the seedlings sent out last year, Mrs. Grace Hill, and Excellent are prominent as holding a conspicuous place. Both of these deserve a place in any collection, for any purpose for which chrysanthemums are used. There are also a number of chrysanthemums yet to perfect their flowers and which the firm are holding back for the exhibition they purpose having later in the month, at the Madison Square Garden.

The chrysanthemums however are not the only interesting feature at this establishment. The collection of cypripediums is in itself well worthy of a visit. According to Mr. Manda's estimate its valuation is \$140,000 and exceeds in size any other three collections in the world. A great many of these are seedlings, hybrids raised at Short Hills. There are 1,500 cypripedium seedlings, small plants, yet to flower, all in the best of health. A variegated one promises a new departure. C. Fairieum, C. magniflorum, C. tonsum superbum, C. tessellatum porphyreum, were in flower, and noticeable for their unique appearance.

A new range of houses is now completed. These houses are built in the most appropriate manner, and will no doubt answer fully the purposes for which they are required. Two or three extensive ranges are yet to be added. The whole, when finished, will rank as one of the largest and best arranged places in the country.

ALFRED E. WHITTLE.

CEDAR RAPIDS, IOWA.—The "Mikado's Garden," projected by florist H. G. Higley, is reported by the local press to have been quite a success. The "Garden" consisted of an exhibition of chrysanthemums held in a large tent, among which were eighteen booths erected by various local churches and charitable institutions. In a word it was a combination of flower show and church fair, in much the same line as the Detroit Flower Festival of last spring. Prizes of \$50 and \$25 were given by the projector to the institutions having the most tastefully designed and handsomely decorated booths. A rather alarming feature was the award of a

prize, consisting of a string of gold beads, to the "most beautiful young lady." It is not stated whether the judges making the award were placed under military protection afterward.



A Ramble Among the Mums.

Yesterday I treated myself to a trip through the north eastern part of New Jersey and away to Pearl River, where Mr. John Thorpe holds court with his especial favorites. I was highly pleased with my visit and saw many charming forms of the now popular autumn flower.

To say that Mr. Thorpe has a splendid collection is to use a very mild expression; his houses contain the very cream of the new and older varieties, as well as many seedlings of undoubted merit, and I am no prophet if some of these do not cause a very wide expansion of the optics of even some of the quidnuncs. Some of those the names of which Mr. Thorpe has already pre-empted are marvels in form, size and color, and most of them will be on exhibition at some of the many shows which occur during the next thirty days.

Thos. H. Spaulding is probably the nearest approach to a perfect scarlet yet seen in the chrysanthemum. *Esperanza* is pink and white, of very distinct and unique form.

Tommy Adams is a rich deep orange of magnificent form, in fact many of these new forms abound in new and varied features, wonderful combinations of color and marvelous construction of flower, and the thought occurs to me while writing that to do anything like justice to some of these fantastic forms one needs to be endowed with descriptive talent far beyond that bestowed upon the ordinary mortal.

I wonder what John Salter would say if it were possible for him to revisit us in the flesh and behold the mutations that have taken place with his favorite flower. I remember when Annie Salter made her debut, she was regarded as a wonderful production at the time, but, oh, how changed are chrysanthemums now; once in a while we see one of the old incurved type, but they become scarcer every year. But to recur to my subject.

In addition to the many fine seedlings which will be heard from later in the season, Mr. Thorpe has a full assortment of previous introductions, all of which appear to be in accord with the wishes and prospects of their grower, while their vigorous growth, immense size of flower and exquisite colors indicate great care and most skillful culture.

At the time of my visit Mr. Thorpe's earliest varieties, which were grown in frames and sheltered with muslin, were nearly all disposed of, but their appearance would seem to indicate that a large crop had been harvested.

In a snug corner of the front of one of the houses Mr. Thorpe has carefully stowed away a choice (?) collection which he had at considerable expense of money, time and anxiety imported from France last spring. I noticed that Mr. Thorpe regarded these with a very peculiar ex-

pression of countenance—a combination as it were, of misplaced confidence and disgust, mingled with considerable of a desire for revenge, and when he explained the matter to me I was in full sympathy with him, for the collection would have been a disgrace forty years ago. There was not even a respectable one in the whole lot, and I thought if that was anything like a fair sample of the best efforts of the French growers they had better be in some other business and leave the chrysanthemum in more competent hands.

Mr. Thorpe has a splendid collection of single flowering dahlias which yesterday appeared in the very height of their glory, but this morning with thermometer at 24° what a sick dejected looking lot they must be, but such is the inevitable.

H. E. CHITTY.

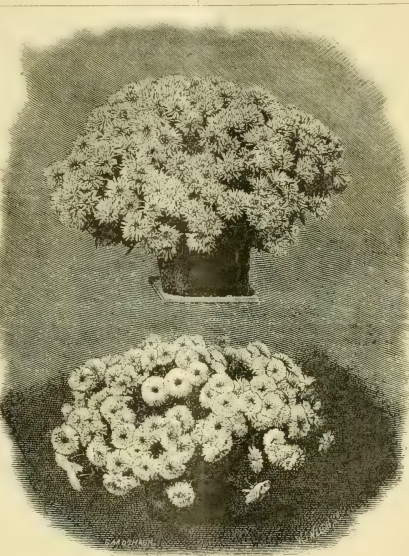
Paterson, N. J., October 31.

ties, which were shown at the Chiswick Chrysanthemum Conference of last year. The examples struck us as exhibiting a good style of growing these plants for small conservatories and greenhouses, and for standing in bowls and vases in the dwelling. The pots were 32's, and the total height of the plants not more than 20 inches—decidedly improvements on the lanky examples all round, which had evidently many unclothed legs to stand upon.—*Gardeners' Chronicle*.

Seeding Chrysanthemums of 1890.

The following are perhaps the first sold this season and the purchaser was but a few minutes making the bargain.

Margaret Gammon, bright rose pink, reverse of petals silvery pink, very large, broad petals with whorled center, new in color and altogether a very fine variety.



TRAINED CHRYSANTHEMUMS. UPPER ONE, FAIR MAID OF PERTH, THE LOWER, ELAINE.

Single Stem and Single Flower.

Chrysanthemums grown to single stem and single flower are becoming more and more popular as exhibition plants. They invariably attract much attention and are greatly admired by the general public who are at once interested in seeing a great handsome flower on a stem rising from a 4-inch or 6-inch pot, and though they are but single flowers the quality is such as to arouse enthusiasm. The engraving is from a sketch of one of the plants shown by Mr. M. A. Hunt at the Chicago show last week.

Trained Chrysanthemums.

Our illustration shows two well flowered and grown plants of popular varie-

ties, Emma Hitzeroth, very large clear yellow, broad petals and promising to be a very fine variety.

Mamie Craig, white with beautiful shading of pink in center of flower, the petals being delicately veined and striped which gives it a very cheerful finish, large bold perfectly round flower in the way of Mrs. President Harrison, but altogether a much finer flower.

Looking Backward, deep purple, a bold flower, the petals forming a whorl which suggests the idea that they are looking from you no matter which way the flower is turned.

Bob Sawyer, lilac crimson and pink shading, a large bold flower, true Japanese and very suggestive of Dickens' popular character, being free and easy, always

good natured with a bright smile under all conditions.

John N. May, deep crimson, very large bold flower in the way of Mrs. Carnegie, but much finer in every way, reverse of petals bright plum color, acknowledged by all who have seen it as the finest very dark chrysanthemum yet seen.

All six are extra strong and fine vigorous growers and are a remarkable production, grown by Mr. Robert Craig's son, W. P. Craig, at John N. May's nurseries, Summit, N. J., and sold by him to Thos. H. Spaulding, of Orange, N. J., for \$200 on October 27. They are selected from 25 plants only. W. P. Craig can well afford to feel proud of his first attempt at raising seedling chrysanthemums. N.

Japanese Names for "Mums."

In the *Pacific Rural Press* for November 8 appears a report of the chrysanthemum fair at Los Angeles, Cal., which relates how two Japanese gardeners who were employed there tore the labels from plants received from the east and relabeled with the Japanese names, giving the English translations of same. According to their statement the correct name of the Mrs. Alphus Hardy is "Mikako's Palace." Names attached to other plants by the Japanese gardeners were the Mikado, Sunrise, Moon in the Window, Light of the Moon, Heavenly Beauty, Yellow River, Abundance, Prosperity, The Bridgroom, A Thousand Sparks, Eye of a Snake, Talons of an Eagle, Hand of a Devil, Firewing, Ansanoma (a city in Japan), Flying Crane, Beauty of Castlewood, Crystal and One Voice.

CHRYSANthemum Desdemona, one of the recently introduced French sorts is quite warmly recommended by Mr. Peter Herke, Cleveland, O., as being a valuable variety for market plants, being dwarf in habit and a remarkably free bloomer. The flowers are but medium size, quilled, white tinged with pink. Mr. Herke has a seedling, the flowers of which are very double. Unfortunately, however, the color is a purplish pink tinge. If the color were brighter it would be an acquisition.

CORRECTION.—The price of *Gloriosum* as recorded in issue No. 126, should have been \$15 per 100—not per dozen. Your correspondent "F" should also correct his statement from 60c. per dozen to the figures as above. E. L.

Argyrea and Cosmos.

B. writes from Michigan: "I notice in *Am. Florist* your note regarding *Argyrea tiliaefolia* and will say that it accords exactly with our experience, except that we had one flower on one of the vines. The cosmos we cannot get to bloom out doors here without first almost starving it in pots to make it set buds. If then set in the open it blooms freely."

The generic name *argyrea* was suggested on account of the silvery undersides of the leaves of the different species. But not one of our plants of *A. tiliaefolia* showed this silvery character. William Davison, of New York, however, tells me that in P. Henderson & Co's trial grounds one of the plants displayed this silvery lining very markedly. F.

ALBUQUERQUE, N. M.—Florist Byron H. Ives recently made a display of chrysanthemums which was much praised by a local daily. The "Queen of Autumn" already has a firm hold of the affections of the people in this far south-western city.



Solid Beds and Raised Benches.

It is not roses alone that can claim attention on this point. Carnations have a hand in it also; in illustration I give a bit of my personal experience.

In planting a solid bed the soil must first be taken into consideration; as the same results might not be obtained on a heavy soil that is naturally cold and damp. My soil is of a miscellaneous order with a sandy subsoil, it is naturally warm and dry and can be watered without danger of becoming water clogged.

The heat in houses planted solid, is along the posts supporting gutter plates and is all above the tops of plants. In those planted on benches the pipes are about fifteen inches below the bottom of the bench and none overhead.

As to planting solid beds the plants are brought in early in September and planted on orders that are not wanted up it is simply a garden under glass with three and a half foot beds and a pathway of eighteen inches. This gives the air a chance to circulate among the plants and keeps them healthy and clean the season through.

These beds give better results in every way from Silver Spray, Wm. Swayne, Portia, Wilder, Tidal Wave, Anna Webb and Hinze's. I have a number of other varieties on trial, among them Fred Creighton, which seems to be more vigorous on solid beds. Mrs. Fisher, I intended planting 500 solid and 500 benched, but it is such a strong grower that I did not wait for bench room; they are doing well where planted and look as though they would rival the old De Graw for blooming.

My bench plants are put in latter part of September with four inches of soil, made moderately rich with well rotted manure. From these I get extra fine blooms of Lambton and Harrison, while on solid beds they produced 50 per cent of flowers that were not fit to use. E. G. Hill, Chester Pride, Buttercup and Geneva also do better here although the difference is not so marked.

There is one point in favor of the bench above solid beds, you can force your plants to death much quicker. But as to earliness and continual blooming I find the solid beds ahead of benches always, one reason is that they are started about two weeks earlier, but I find that plants on benches do not start as well in warm weather. After November 1 there is very little difference either way, but by March 1 to 15 the benches are pretty well exhausted, while those on solid beds are going right ahead. ALBERT M. HERR.

Seasonable Notes.

As the glory of the chrysanthemum wanes and its season draws to a close, then is the value of the rose and the carnation more and more appreciated, and while we may expect that the demand will be slow during October and early November, towards the middle of the month the demand for all these flowers increases and prices are sure to increase also. And one of the principal advantages in carnation culture is the fact that as the season advances the flowers greatly

improve in color, size and length of stem—features which add to their value as the demand is more assured, in fact early in the season as a rule carnation flowers are far from perfect, except in cases of extra favorable circumstances and very early flowering sorts.

When writing an article which appeared in the *FLORIST* of October 1, I remarked that I had discarded Hinze's White and had planted Lambton in its place, and that I would report results as season advanced. To say that I am satisfied with that move is an exceedingly moderate expression of my satisfaction with results so far; there has not been a time since October 1 when I could not go into the house and gather a few hundred long stemmed flowers, and such flowers; (well I will leave that for another occasion). And the beds now are literally a mass of buds in all stages of development, indicating a continuous crop for a long time to come. I am more than pleased, and think it the best carnation move that I have made in some time, I am keeping a strict account with the house, and for the benefit of growers will here say that I get fifty cents per dozen for these Lambton flowers right along.

I am also growing Tidal Wave quite extensively this season. It is a very free bloomer, good grower, long stems, splendid color, and in every way most desirable.

In crimsons or maroons I have Orient, Anna Webb, Emperor of Morocco and Pride of Kennett. Of course it is rather early yet to speak conclusively about the intrinsic value of these; the three former are all splendid varieties, but the flowers being quite large and the stems very slender causes them to droop over badly. Anna Webb is a little better than the other two in that respect, but Pride of Kennett has a stem stiff enough to carry the flower perpendicularly, which seems to me a matter of very great importance in a carnation.

For a pink one I still cling to Grace Wilder although I have Fred Creighton and Christmas in small numbers. This season should in a measure determine the respective values of these new pink sorts.

The larger part of my Grace Wilders are still out in cold frames in pots and they appear in the most complete rugged health, this afternoon we have begun to remove two or three kinds of the earliest chrysanthemums and will at once fill up the space with carnations from pots.

Judging from what I have seen I should think the prospects for a good carnation year are excellent—far better than last year's. The general condition of the stock is much better, and the weather, although we had a good deal of damp raw weather in October, it has on the whole been quite mild, which has reduced the need of fire heat to a minimum, in fact with my fire heat so far has actually been unnecessary, and the bright clear weather since November came in is all that can be desired in carnation culture.

Continue to give all the fresh air possible both night and day, and maintain cleanliness in the fullest and strictest sense. I was at an exhibition the other day where some carnations were staged that had evidently been grown in a much higher temperature than was good for them; if the flowers had ever opened they had prematurely closed again, and they certainly presented anything but a lively front; people who treat carnations as hot house plants must expect some disappointments. H. E. CHITTY.

Patterson, N. J., Nov. 7, '90.



GERMAN IRISES

New Carnations—Notice.

The undersigned has been appointed by the Florists' Club of Philadelphia to prepare and read a paper at the next meeting—which is to be held Tuesday evening, December 2—on "The Improvement of the Winter Blooming Carnation," and he would be pleased if raisers of new varieties, or those who may have such sorts

in their possession for distribution, if they would forward flowers of meritorious kinds, either improvements on existing varieties or new types, seedlings or sports, for the purpose of illustration as to what has been accomplished up to date, and very greatly oblige.

Yours truly EDWIN LONSDALE,
Wyndmoor, Chestnut Hill.
November 8, 1890. Philadelphia.

German Irises.

These are the common large irises with surface-spreading rhizomes and which are so plentiful in gardens throughout the country. They are very easy to grow, perfectly hardy, free flowering and satisfactory plants, and bloom in early summer, late May and June. As they have been common garden plants for hundreds

of years and are easily raised from seed which they produce in large quantity, we have, as might be expected, a multitude of varieties of German irises, some exceedingly handsome and others dingy and unattractive enough.

Among good varieties are: Albicans, white; Celeste, lavender; Comte de St. Clair, white and violet; Darius, yellow, lilac and brown; Fairy Queen, lavender; Graculus, pale yellow and purple; L'Innocence, white and purple and orange; Mlle. Elmira, pale blue; Mme. Chereau, white and violet; Queen of May, rosy-lilac, and Victorine, white and purplish blue.

These irises like an open place to grow in, land somewhat light rather than heavy, and so arranged that water drains off from it readily, but really they grow luxuriantly anywhere and often under the most neglectful circumstances. The chief danger from ill-drained land is in causing the rhizomes to rot. And to avoid this trouble we should in planting always keep the rhizomes on top of the ground; also, if we are in the habit of scattering some manure or litter over them in winter to save them from sudden freezing and thawing, be sure to have it removed after the crowns early in spring.

These large bunches of these irises are handsome for house decorations I do not think it would pay the florist to grow them for cut flowers and this is because the individual blooms last open for one day only. Of course the advanced unopened buds expand day after day in water as they would were they still upon the growing plants. But we all know that when cut flowers fade, instead of picking off the withered blooms and waiting for the other buds to open, folks generally dump the whole into the ash barrel at once.

The chief value of these irises is as garden decorative plants, and for this purpose florists can grow and dispose of them feeling assured that they are supplying their customers with plants that will grow well, flower abundantly and beautifully, and live forever without any special care from any one.

In the same section with the German iris we include the fragrant *Iris Florentina*, white tinged with blue, and *Iris pallida*, pale blue, and one of the boldest and handsomest of the race.

There is also a host of other irises. Some, like *Iris reticulata* and *I. Kolpakowskiana*, come into bloom at the same time as do crocuses and Siberian squills, and are soon followed by the different varieties of spring irises (*I. pumila*) and so on through a host of species till we wind up about the end of June or early July with the gorgeous *Krempfer's* irises from Japan. I would here remark that I had Ondine last summer eleven inches across.

Iris cristata from the Alleghenies is one of the prettiest surface spreading dwarf sorts we have got, and *I. lacustris* from the Great Lakes one of the choicest little gems.

Iris Siberica is the weed among garden irises, more so than the yellow flag *I. Pseudo-necorus* or our wild blue flag, *I. versicolor*, for its self-sown seedlings come up all around with the persistency of heliopsis or other weedy composites.

The English and Spanish irises (so called) are bulbous species well worth growing by any one who has a warm, sheltered nook with rather light soil. Plant them as you would tulips or daffodils and in fall. The Spanish irises bloom early in June, the English ones late in June.

W. F.



Cattleya Gaskelliana.

This cattleya was introduced from Venezuela about seven years ago, and welcomed as a great acquisition to the summer blooming section of this showy genus. It is probably only a geographical form of *Cattleya Warneri* and closely resembles the variety *pallida*, both in growth and inflorescence. The flowers are very variable in color, the rarest form being pure white, and others can hardly be distinguished from *Warneri*. The most numerous have rosy sepals and petals with a blotch of rich purple on the anterior lobe of lip, which has a crisp margin and an orange yellow striated throat.

C. Gaskelliana grows and flowers freely in small well drained pots and not over much compost of peat and moss, strong heat, abundance of water and air during growth, with as much sunlight as can be given them without burning the foliage. As soon as the flowers have formed the plants should be subjected to a cool, airy and comparatively dry treatment until new growths appear the next season. Though this species is plentiful and reasonably cheap, it is not such a great acquisition to the general florist on account of its flowering too early in the season, but this objection may probably be overcome by judiciously retarding the growth as long as possible in the spring. I have had some plants in bloom when the early *Trianes* opened—and have a few flowers open now.

F. GOLDBERG.

Slingerlands, N. Y.

Notes on Flowering Plants.

The Cape Jasmines, or gardenias, form a useful group of cool-house flowering plants, and though well known in the trade yet are but little used.

This may not be due, however, to any fault in the flowers of these plants, as the demand may not have been sufficient to warrant their being grown in quantity, and the fact remains that gardenia flowers are both handsome and durable, and will pay for the space occupied, if used as an addition to the regular stock of cut flowers for a local trade.

The cultivation of gardenias is quite a simple matter, and requires but little explanation, but to begin with the first operation, they are propagated by means of cuttings, the latter being made from firm young wood, and placed in a moderate shade, watering, etc., they soon root, the best time for this operation being early in the spring, as the young plants then become nicely established in time for planting outdoors at about the middle of May.

A moderately light soil is preferable for potting, for instance, one-third peat to two-thirds good loam, and some sand, but the peat is not indispensable. As these plants are naturally of quite a bushy habit but little pinching is required to keep them in shape, but if any individual plant should become straggling in form, it may be easily remedied with the knife, as gardenias will endure severe pruning and break away freely afterward.

When planted out during the summer they should of course be lifted before frost, else both foliage and buds may suffer.

Probably the finest variety of this class is *G. Fortunei*, a strong growing and free flowering plant that was introduced from China a number of years ago. It produces large, pure white flowers which are of similar form to those of the well-known *G. florida*, and like them also in being very fragrant. *G. Fortunei* is a handsome plant both in foliage and in flower, its glossy, dark green leaves being very attractive and forming the best possible background for the flowers.

The next in value is *G. florida*, to which reference has already been made, and which is probably the most familiar variety in the group. Its pure white, waxy-looking flowers are often to be seen in the larger flower markets, though they have not yet become as fashionable for buttonhole flowers here as they used to be on the other side of "the pond."

G. radicans is also a useful sort, and is more dwarf in all its parts than the preceding. It makes a low spreading bush, with small bright green leaves, and produces its medium-sized white flowers in profusion.

The variegated form of the above is also an ornamental plant of some value, the variegation consisting of a marginal line of white or yellowish white on the leaves. The latter grows and flowers about as freely as the type and is really an interesting plant, and likely to prove useful in a general florists stock.

Another cool-house plant of much beauty is *Rhynchospermum jasminoides* (or as it is now known, *Trachelospermum jasminoides*), an easily grown plant of scanty habit and very free flowering. It seems almost unnecessary to offer description of this plant, but it may be stated that it is a hard-wooded climber with small shining opposite leaves and pure white flowers, the latter being produced in clusters on the young growth.

This *rhynchospermum* ordinarily flowers during the spring and summer but may be forced into bloom during the winter, and would doubtless give an elegant effect if used in sprays among Maidenhairs in a mantel decorated with flowers.

Rhynchospermum is also propagated by cuttings, and may be grown on quite rapidly in a warm house if needed, though a high temperature is not necessary for its welfare. Good drainage should be given to the pots as this plant is somewhat impatient of stagnant moisture.

Chorozeema cordata is an old-fashioned New Holland plant that would bear more extended use among spring flowering plants, its pea shaped flowers of a mixture of red and orange being very showy.

This chorozeema may be grown well in pure loam and sand or in a mixture of peat and loam, and soon becomes of useful size, for the plants will flower when quite small. Old plants that are kept over from cutting from, may be given a hard pruning after the flowering season is over, and will soon start into growth again. Regarding temperature the chorozeema will flourish under similar conditions to those afforded geraniums, and about the only insect that troubles it is red spider, which of course may be avoided by thorough syringing.

W. H. TAPLIN.

Marketing Cut Flowers.

How to get the flowers from the various growers into the hands of the florists who want them in various quantities at irregular intervals and with the least amount of loss is a problem which demands our attention. Any mode of solving this problem which would make



FLOWER OF CATTLEYA GASKELLIANA—LIFE SIZE.

it possible to discriminate between different parties I am sure is of no value. We must have a system by which all growers and all consumers are treated alike. The plans which I have recently heard mentioned, of forming a large joint stock company appears to me to be but a commission business with many proprietors, which is undoubtedly good, but the main object is not attained. There will be just as much kicking from all sides then as now. For the sake of getting others to give us their views on this subject I wish to suggest a plan which I think is at least worthy of some discussion. I think it does away with the flower market; it excludes all discriminations, it saves many losses, it will facilitate the distribution of flowers to where they are most needed at different times, it will save running expenses to a considerable degree, it will put us all on our own merits and at the same time give us the advantages of a combination, and if entered into with a proper spirit it will at least keep all good stock out of the fakir's reach, and it can be tried without causing any revolution whatever.

The plan is as follows: In all large cities the commission men and florists to form an association and appoint an inspector, one who understands flowers. It shall be the different inspectors' business to get together and establish a scale of quality for all flowers, say roses to be 1, 2, 3 and culls; carnations 1, 2 and culls.

And these grades should be maintained the year around. We are now in the habit of calling the best you can get No. 1, no matter how poor that is, but this should not be. A rose which is not perfect should not be called No. 1. The inspector should be put in charge of a floral warehouse which is to be arranged for storing flowers to the best advantage. When a grower sends a consignment of roses to Chicago to be handled by, say John Smith, he sends the case of flowers marked John Smith in care of inspector's warehouse with a ticket inside stating how many of each variety and their quality. The inspector examines them and if they are properly graded and counted has them carefully stored and marks the ticket O. K., and sends it over to John Smith. Mr. Doe sends a box of roses for Roe Bros. They go to the warehouse in the same way and Thompson sends a box full to Jones. Then all the Chicago roses will be in the one warehouse properly cared for and graded by a disinterested party. Each commission house has their stock represented by tickets on their desk. As their orders come in they make drafts on the warehouse for the stock which is placed to their credit; whether Jones gets Doe's roses or Thompson's no one knows, he simply gets so many of such a quality and variety. If Smith sells all his and wants more he can inquire of inspector who has any left to their credit and get an order from that party for more. The

commission men will check out their flowers the same as they do their money from a bank.

The advantages thus far are: The florist who orders 50 No. 1 Mermets knows that he will not get No. 2 and be asked to pay for No. 1. The commission man can not send out No. 2 roses to fill an order for No. 1, because the rules require the inspector's ticket to be put in with the flowers. The grower who grows only second quality stock can not kick at the commission man for not working his roses off at better prices, because the inspector has classified them according to rule.

At the end of a day's business the commission man will have to credit his growers for the stock sold, and there is only one proper way of doing this, credit each grower an amount in proportion to the size of his consignment to the amount sold. If A sent him 50 Mermets No. 1, B sent 100 Mermets No. 1, and C sent 50, and he sells 100 in all, then credit A with the sale of 25, B with 50 and C 25. It is very simple and impartial. The inspector can report each morning the amount of stock left over from the day previous, and this will serve the commission men means of determining what the price should be. The inspectors of each city can report to each other by cipher dispatch each day the stock on hand, in this way the entire crop of flowers would be under economical control.

C. B. W.

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Orders for less than one-half inch space not accepted. Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THERE CAN be no question as to the wisdom of a daily change of, or addition to, the floral arrangements and cut flowers at exhibitions. A new competition each day maintains public interest and above all it gives the newspapers something new to talk about and insures liberal daily notices of the exhibition in their columns. And to secure the fullest benefit from such daily changes large playcards announcing the competition for the following day should be prominently displayed in the exhibition hall. A printed programme for the week is also of material value.

THE RAPIDLY increasing use of orchids in all elaborate floral arrangements has brought about a demand which is becoming more and more in excess of the supply. As the time for the fall exhibitions approached it was practically impossible to secure any quantity of good blooms, as far-seeing competitors had placed advance orders for the entire cut of the growers. And does the orchid take the place of the rose or any other flower? Not at all. The same number of roses and other flowers are required. The orchid takes a place which it and it alone can fill, and which it has made for itself.

THE GREAT VALUE of Asparagus tenuissimus as a "stayer" in decorations was last week again brought forcibly to mind. Of two mantels one was finished at the top with a plant of Adiantum Farleyense, the pot being necessarily on its side, and the other had in the same position a loosely arranged mass of the asparagus merely attached to damp moss back of it. After three days exposure at the exhibition the poor fern showed the effects badly while the asparagus was as fresh as when first placed in position.

WE HAVE received quite a number of letters congratulating both the management of this journal and the trade upon the recent change of the FLORIST from a semi-monthly to a weekly. We thank each and every one for their congratulations and kindly wishes. We would however recommend the application of a cloth which has been wrung out of ice water to the forehead of the correspondent who asks: "When will you make it a daily?"

A MATTER for congratulation is the vast improvement in the public taste as regards floral arrangements in the last few years. The awards made at the Chicago exhibition by a committee composed of twenty society ladies was a striking illustration of the demand now made by users of floral decorations for grace in arrangement. Simple, airy, graceful arrangements found most favor with a large majority of these judges.

SINCE our November 1st issue appeared we have learned that there is not as much

danger as at first seemed imminent of the classification submitted by the committee to the World's Columbian Commission, being adopted by that body as submitted. We have reason to believe that the power which will take final action recognizes the importance of horticulture in the exposition and will see that it is given adequate space and proper management.

THIS WEEK no less than eighteen chrysanthemum shows are being held in various cities throughout the country. This number covers only the competitive exhibitions. If we were to include the various shows which are displayably, or chrysanthemum "fairs" the number could easily be doubled and probably trebled. And the chrysanthemum "craze" still grows.

THE AMERICAN FLORIST reaches the entire trade in America. An advertisement in these pages goes to every possible wholesale buyer of florists' goods on the continent of North America. We have also quite a list of subscribers in England, France and Holland and scattering ones in every civilized country on the face of the globe.

ONE of our subscribers, Mr. J. C. Luitweiler, York, Pa., writes a note warmly recommending the sphincter grip armored hose as remarkably durable. He states that some of this armored hose, which he has had in daily use for four years is as good as the day it was purchased.

SUBSCRIBERS who fail to receive their paper promptly, or who miss an issue, will confer a favor on the publishers by promptly notifying this office of such delay or omission. Please do not wait until several numbers have been missed before making complaint.

FOR the exhibitions have your tickets numbered from one up to the number of admissions you hope to have. Instruct the ticket seller to give them out serially and then you can tell at any time how many have been sold.

IN THIS ISSUE appears an article on marketing cut flowers by C. B. W. which will probably be liberally criticised as visionary. However, we print it in the hope that discussion may bring forth something practical.

MR. JOHN BURTON, of Chestnut Hill, Philadelphia has, we believe, the honor of being the first florist to be elected to the legislature in Pennsylvania.

GRACE and SIMPLICITY in floral arrangement is certainly the order of the day. Cumbersome and heavy arrangements are not cared for.

A WESTERN firm recently received an order from Australia through their advertisement in the FLORIST.

Boston.

Chrysanthemums everywhere. The florists' windows are gorgeous with great masses of *Kioss*, *Calliagordis*, *Hardys* and *Cannells*, the entire cut of the stands are fairly groaning under their load of bloom, the ladies wear great corsage bunches of them and occasionally an aesthetic truckman even has his horse's ears decorated with the resplendent clusters. Roses feel the pressure this week and are no longer scarce in the market.

Violets, lily of the valley and carnations continue in short supply. Most of the growers have just now got a good dose of violet disease on their hands.

The subject for discussion at the November meeting of the "Gardeners' and Florists' Club" was "Chrysanthemums." The meeting was very well attended and the discussion brought out many valuable thoughts. It was voted that the annual supper of the club take place as usual in January and a committee was appointed to make the necessary arrangements. A unanimous vote was passed disapproving of and protesting against the adoption by the World's Fair Commissioners of any plan whereby the Horticultural Department should be merged into the Agricultural, and directing the secretary to transmit a copy of said vote to the commissioners.

All indications point to a fine chrysanthemum show this week in Horticultural Hall. Many new seedlings will be shown, and the cut flower department of the exhibition promises to be exceedingly fine.

The new rose, the "Waban," will be exhibited for the first time. This rose is a sport from Catharine Mermet, and originated at the Waban Conservatories of E. M. Wood & Co. The color is a deep brilliant glowing pink, entirely free from all traces of the lawlessness which is seen in the old Mermet when placed alongside Gabriel Luizet, Mrs. John Laing and such roses with pure tints. The color keeps well and the rose being rather more double and solid than a Mermet will undoubtedly be a good "shipper." The growers say that the color is equally bright in cloudy or in sunny weather.

Mr. Louis Davenport, of Milton, died on October 31st, at the good old age of 83 years. He was widely known and respected, and his genial disposition made him many friends. Few florists are aware that Mr. Davenport was the first florist in the United States to cultivate the smilax for commercial purposes, some twenty-five years ago, and that he is therefore entitled to the credit for its introduction.

W. J. S.

Philadelphia.

Do we want anything? Well, I should say not, the window is full, the ice box is packed and we don't know where to put the last lot of stuff that's just in. This and something similar is the kind of conversation one hears in almost every cut flower store. During the past week business has been quiet and flowers of all kinds very plentiful, and good ones at that. The growers seem to have been keeping their stock back as long as they could, but now it is coming in in spite of them, and as the chrysanthemums are now in full blast it is quite an interesting race, with the mums a few lengths ahead.

There is a fine stock of pot plants about. The varieties *L. Cannings* and *Ivory* taking the lead; these plants in 6-inch pots with fine blooms, wholesale for from \$3.60 to \$6 per dozen, in 8-inch from \$7 to \$12 per dozen. Fine blooms of *Bullock*, *Pres. Hyde*, *Mrs. Hardy*, etc., are bringing \$20 to \$50 per hundred. *Perles*, *Niphotos* and *Hostes* are 2 to 3 cents, *Mermets*, *La France* and *Albany* 4 to 6 cents.

It is now Hon. John Burton, member of the Legislature from Montgomery county. Quite a number of the boys took a trip up the river, but our friend John, not being partial to the saline atmosphere at this season of the year, remained at home and received the congratulations of his friends.

The ten pin alleys at the club house are about finished, they are the finest in town, laid in hard maple, by experienced men under the supervision of Mr. J. Westcott,

chairman of committee for fitting up club house. Mr. Westcott has worked very hard to have the job finished in time for the chrysanthemum show and is happy to say that it will be in working order by that time.

The Florists' Club is taking a hand at driving the flower fakirs off the streets and has appointed a committee to see if the ordinance prohibiting them can not be enforced. It will be a great fight as the fakirs are not easily frightened and will contest every inch of the ground, or rather sidewalk.

At the last meeting of the Florists' Club the following officers were re-elected to serve for the ensuing year: Robert Craig, president; Chas. D. Ball, vice-president; Henry F. Michell, secretary; Thomas Cartledge, treasurer. The annual chrysanthemum banquet is set for the 11th inst.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,

And the Choicest ROSES for the fall and winter season.
Mention American Florist.

W. S. ALLEN, WHOLESALE DEALER IN CUT FLOWERS,

36 EAST 23rd STREET, NEW YORK.

ESTABLISHED 1877.

Price List sent upon application.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS,

No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

HAMMOND & HUNTER, WHOLESALE DEALERS IN CUT FLOWERS,

51 West 30th St., NEW YORK.

W. A. JURGENS, WHOLESALE FLORIST

27 Union Square, NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST

56 WEST 30TH STREET,
NEW YORK.

GEO. MULLEN, WHOLESALE FLORIST.

Florists' Supplies Always in Stock.

17 CHAPMAN PLACE,

(Off School St., near Parker House),

BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express promptly filled.

Wholesale Markets.

Cut Flowers.

BOSTON, Nov. 8.	
Roses, Bon Silene.....	\$1.00 @ \$2.00
" Gontiers.....	2.00 @ 3.00
" Niphetos.....	3.00 @ 5.00
" Perles, Niphetos.....	4.00 @ 5.00
" Mermets, Brides.....	6.00 @ 8.00
" Hoste, Woutton.....	6.00 @ 8.00
" An. Beauty.....	6.00 @ 8.00
Carnations.....	1.00 @ 2.00
" An. Beauty.....	6.00 @ 8.00
Violets.....	2.00 @ 3.00
" Gontiers.....	50 @ 75
Chrysanthemums, specimen blooms.....	4.00 @ 15.00
Adiantums.....	1.00 @ 1.50
Ivy leaves.....	5.00 @ 8.00
Aluminum.....	1.00 @ 1.50
Hardy ferns, per 1000.....	2.00

PHILADELPHIA, Nov. 8.	
Roses, Beauties.....	1.50 @ 2.00
" Perles, Niphetos.....	3.00 @ 4.00
" Albany.....	6.00 @ 8.00
" La France.....	3.00 @ 5.00
" Mermets, Brides.....	5.00 @ 8.00
" Pierre Gullotti, Hostes.....	5.00 @ 8.00
" Gontiers.....	2.00 @ 2.50
Valley.....	1.00 @ 1.50
Carnations, long.....	1.00 @ 1.50
Carnations, short.....	1.00 @ 1.50
Adiantums.....	1.00 @ 1.50
Violets, single.....	35 @ 50
Violets, double.....	35 @ 50
Bouvardia.....	1.00 @ 1.50
Chrysanthemums.....	1.00 @ 1.50

NEW YORK, Nov. 8.	
Roses, Bon Silene.....	\$1.00 @ \$1.50
" Gontiers.....	2.00 @ 3.00
" Perles, Niphetos.....	2.00 @ 3.00
" Ravys.....	2.00 @ 3.00
" Watteville.....	3.00 @ 5.00
" Mermets, Brides.....	3.00 @ 5.00
" La France, Albany.....	3.00 @ 5.00
" Bonnets.....	15.00 @ 20.00
" Hostes.....	3.00 @ 5.00
" Beauties.....	15.00 @ 20.00
Valley.....	6.00 @ 8.00
Smilax.....	15.00 @ 20.00
Carnations, long.....	1.00 @ 1.25
Carnations, long, white.....	1.00 @ 1.50
Adiantums.....	25.00 @ 30.00
Bouvardia.....	1.00 @ 1.25
Mignonette.....	1.50 @ 2.00
Violets.....	1.00 @ 1.25
Chrysanthemums, fancy.....	15.00 @ 20.00
Asparagus plumosus.....	75.00 @ 100.00
Common chrysanthemums, per bunch.....	10

CHICAGO, Nov. 10.	
Roses, Perles, Niphetos.....	\$3.00 @ \$4.00
" Gontiers.....	1.00 @ 2.00
" Bon Silenes.....	1.00 @ 2.00
" Mermets, La France.....	4.00 @ 5.00
" Brides.....	5.00 @ 6.00
" An. Beauties.....	12.50 @ 15.00
" Bonnets, Dukes.....	4.00 @ 5.00
Carnations, short.....	75 @ 1.00
Carnations, long.....	15.00 @ 20.00
Smilax.....	1.00 @ 1.25
Adiantums.....	1.00 @ 1.25
Violets.....	3.00 @ 4.00
Chrysanthemums.....	1.00 @ 2.00
Bouvardia, heliotrope.....	1.00 @ 2.00

WM. J. STEWART, Cut Flowers & Florists' Supplies

WHOLESALE

67 BROMFIELD ST., BOSTON, MASS.

Mention American Florist.

EDWARD C. HORAN, 34 W. 29th St., NEW YORK.

Having removed to more spacious quarters (next door) with increased resources and facilities I am now prepared to furnish at short notice and in any quantity, selected Roses of every variety, also all other flowers in market.

Roses to be shipped are especially selected, and packed under personal supervision.

SPECIALTIES:

American Beauty, La France, The Bride, Mermets, Mme. Hoste, Duchess of Albany.

Write for PRICE LIST.

Return testimonials sent when orders or part of them cannot be filled.

Mention American Florist.

WELCH BROS., WHOLESALE FLORISTS.

155 Tremont Street, BOSTON, MASS.

We make a specialty of shipping choice Roses and Cut Flowers, carefully packed, to all points in Western and Middle States.

Return Telegrams are sent immediately when it is impossible to fill your order.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,

(Successor to Vaughan's Cut Flower Dep't.)

All Flowers in Season.

Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS., WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

All Cut Flowers in season. Orders promptly shipped.

Store open until 9 P. M. Sundays until 2 P. M.

ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

C. H. FISK, WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES,

116 Dearborn Street, CHICAGO.

OPEN NIGHTS AND SUNDAYS.

WIRE DESIGNS IN STOCK

NOTICE.

Mr. E. J. Harms has purchased the interest of Mr. O. W. Frese in the business formerly conducted under the firm name of Frese & Gresenz, and the business will continued by L. G. Gresenz and E. J. Harms under the firm name of Gresenz & Harms at the old location, 99 Wabash Ave.

L. G. GRENZEN,
E. J. HARMS.

GRENZEN & HARMS, (Successors to FRESE & GRENZEN.)

Wholesale Dealers in CUT FLOWERS,

And Florists' Supplies.

89 Wabash Ave., CHICAGO.

Store Open: Nights 9 P. M.; Sundays 2 P. M.

LaRoche & Stahl, Florists & Commission Merchants

CUT FLOWERS, 1237 Chestnut Street, - - PHILADELPHIA.

Consignments Solicited. Special attention paid to shipping.

Mention American Florist.

CHAS. E. PENNOCK, WHOLESALE FLORIST

38 So. 16th Street, Philadelphia, Pa.

JOHN M. HUDSON, WHOLESALE

Commission Dealer in Cut Flowers, 1225 Market St., ST. LOUIS, MO.

Quick sales and prompt returns guaranteed. Consignments solicited.

J. M. McCULLOUGH'S SONS, Wholesale Commission Dealers in CUT FLOWERS,

134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES: Prize Chrysanthemums and Orchids:

CUT FLOWERS.

The choicest Cut Flowers, of our own growing, at lowest market rates, shipped C. O. D. A. F. Code when ordering by telegraph. Telephone connections. For prices, etc., address

J. L. DILLON, BLOOMSBURG, PA.

® The Good Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN POTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

MR. J. JOHNSON, with Oscar H. Will, of Bismarck, N. D., sailed for Liverpool on the City of New York of the Inman Line on the 10th inst.

INDICATIONS are that the contract prices on some varieties of seeds will be higher next year and some of the older seed growers will get back some trade.

UNDER the new tariff law, no refund will be made if perishable goods are found to be damaged or worthless on opening, but importers may examine goods on arrival and if worthless abandon the same.

THE ENTIRE crop of seed beans this year is so poor that several seedsmen propose to print on their bean labels a statement referring to the very unfavorable weather and the impossibility of furnishing a good sample.

THE *Rural New Yorker* advertises that it will give AWAY SEEDS OF PLANTS of important new varieties the coming season. While the *Rural* has done much good, is it quite certain that its 'exposures' are wholly disinterested? Is not the tendency of its criticisms to injure the mail trade of the most reliable houses?

The Government Seed Shop for 1891.

THE season of franked packages of seeds for rural constituents is just about to begin, and before it is over it is estimated that something like 6,000,000 packages of seeds of all sorts will have been sent out by the agricultural department. Last season 445,821 packages of seeds were sent out by the requests of congressmen, an increase of 7,130 over the preceding year. Added to these were a third as many more packages sent out by the department itself in response to requests made directly to it. The major portion of the work incident to sending out these seeds is done by girls. They are in a large part the same girls who were employed at the work last year, and are now beginning to get back to their old places again for this year's work. About fifty have already been taken and perhaps as many more will be added to the force later in the winter. Though many more seeds will be sent out this season than in any preceding year, less girls than heretofore will be needed to do the work, because it has been more perfectly systematized. The department has a special agent, Mr. R. S. Whittleton, who, at this time of the year, is out on the road traveling about the country buying fine seeds for the department wherever he finds them. For instance, once when he was going about the country he saw a patch of tomatoes that looked like peaches. He ate one raw and then had some of them cooked and found the new style of tomato excellent. He bought the whole field of them and they were sent out by the department last season. All seeds bought are scientifically treated before they are paid for and unless 75 per cent. of them germinate when tested they are sent back where they came from. A few weeks ago an eastern firm tried to palm off some bad seeds on the experts and several tons

were sent back, having failed to pass the tests. Last year was the first season during which a special agent was kept in the field to look for exceptionally good seeds for the department, but the plan proved so admirable that it is being continued this year.—*Brooklyn Eagle*, Oct. 26.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XVIII.

A FEW WORDS ABOUT TRADE MARKS.

Well, I'm inclined to agree with you. This is not a very honest world. Competition runs high and in the scramble which ensues men don't hesitate to profit by the labor of others without making just compensation therefor.

You say that several years ago you adopted the motto "Resurgam" I shall rise again for your seeds and that every package bore your firm name with that Latin word thus "Resurgam Seeds." Now some other house has adopted your idea and refuses to acknowledge that you have any exclusive right to the use of the word.

You say that you neglected to register the word as your "trade mark." I don't think that will make any difference. The law is inclined to protect a man in the enjoyment of all his commercial rights. Without trade and commerce civilization would soon become a thing of the past. If you can prove that you have, by judicious advertising, by skill and care in raising and packing only the best products, given your "Resurgam Seeds" a widespread reputation, you have in reality created just so much property and the law must protect you in the enjoyment of it.

For instance, if a man comes into your town and starts a weekly newspaper which he calls the *Blower and Tooter*, and by his application to business succeeds in building up a bright local journal the law would not permit me to come into the same town and start another *Blower and Tooter*. An injunction would lie against me if I attempted to do so.

The law would condemn my act as a fraud, and so it should the act of this opposition house which has appropriated your brains and business tact by stealing the word "Resurgam" after you had given it a genuine commercial value.

Yes, we have a national law for the registry of trade marks, and possibly it would have been better under the circumstances for you to register this word. It would have made the way of the transgressor harder. It would have made your position easier. For now you are called upon to prove that you have "created property" in this word. Not always an easy thing to do. If a man can go on for years using a certain trade mark or trade signature, why then it becomes his by universal consent of all mankind, and there is no use asking the law to proclaim to the world the fact that such a word or words are your exclusive property.

Custom and use are the strongest kind of law, and a path worn by the sheep, deepened by the cows and appropriated by human beings becomes a "highway" which no court of justice can block up.

Now, as regards this subject of trade marks and their registry in the patent office at Washington, I must say that people in general have an entirely erroneous idea of them. They are not so easily acquired or so magical in their effect as you may suppose. No doubt you think that if you should be fortunate enough

by hybridizing to create a black tulip that you could instantly register those words "Black Tulip" as your trade mark. Nothing of the kind. The law will not permit you to make use of any purely descriptive words as a trade mark, that is, in the English language. Now, had you called your tulip the "Kalon Melan" (Black Beauty, in Greek) you would have a trade mark which the law would respect.

To give you an idea "what fools these mortals be," a few years ago an enterprising lady wrote a play which she called "Washington" and forthwith she registered her title in the office of the Librarian of Congress at Washington (that is, made it her literary trade mark) and gave notice to the world that she would prosecute everybody who called a play "Washington." Funny, wasn't it? Why, poor George! if people went on copyrighting and trade marking his name for a century it would become unlawful to refer to the father of his country save in the sign language.

Ask yourself what is the design and purpose of a trade mark? A trade mark or trade signature is an arbitrary word or device or both combined to enable the buyer to distinguish your seeds from the seeds of some other house, in other words to protect the public quite as much as you yourself. The world is willing to pay a higher price for superior articles and hence it has a right to know what it is buying. You see the design is twofold, to save you from having your brands imitated by unscrupulous dealers and to secure to the public the genuine article instead of the imitation. It is a very praiseworthy scheme of law, but the right should not be abused as in the case of the woman and her play.

A man by the name of Smith once applied for a trade mark for his "Wringer" and gave the words "Smith's Wringer" with a cut showing a hand wringing a man's nose and the blood running therefrom. It was a very poor trade mark, but of course any other Smith could use the words "Smith's Wringer" with another device. But a very foolish man lately tried to protect the words "milk shake" by means of a trade mark, the law gave him the shake and he deserved it, you must have something arbitrary in your trade mark and not merely descriptive.

Another error people fall into is to suppose that after a patent expires or a copyright runs out you can make either one of them a "perpetuity" by registering the name of the article as a trade mark. It won't work. The instant a patent runs out the article is public property. But the law would stop you from saying that it was still "Boggs' Paper Bag," provided Boggs continued to make the bag. You could make the bag but not trade on Boggs' name.

You ask me whether the patent medicines of the day are patented. Very few of them. They are merely secret remedies and anyone may imitate them if he can get at the secret. For instance, suppose you discover a new kind of compost for flower beds, the best way to protect your product would be to advertise it with some good trade mark. Then no matter how much other houses might imitate it people would find it by the original price, and every dollar you put into advertising would give additional value to your compost, although it might be exactly the same as sold by the opposition house.

Now get the various statutory rights fixed in your mind:

1. There is the patent right which runs for seventeen years and then expires ab-

solutely unless renewed by special act of Congress.

2. The copyright which protects books, photographs and original designs (for instance, a bunch of flowers on your bill heads) for forty-two years.

3. The trade mark which will last as long as the country lasts and longer if a decent government is set up by our successors.

UNCLE BLACKSTONE.

Chicago.

The Florist Club's annual banquet occurs next Saturday evening at Kinsley's. There promises to be a large turnout and a royal good time is assured. Friend Gallagher is now "right in the heart of the city." A relative who was a candidate at the recent election ran 7,000 ahead of his ticket, and as M. F. had charge of his campaign he naturally admires himself as a political campaigner.

For a man who complained that the rules "barred him out" Mr. Bassett carried away a very large pocketful of premiums.

Among those present at the exhibition from a distance were a delegation of thirty-two from Milwaukee, among whom were Mr. and Mrs. C. B. Whitnall, Mrs. Gordon, F. P. Dilger and James Currie, and Messrs. Philip Breitmyer of Detroit, F. Smith of Adrian, Mich., A. C. Brown of Springfield, Ill., M. A. Hunt of Terre Haute, Ind., F. J. King, Ottawa, Ill., Joseph Heul, Jacksonville, Ill., H. O. Hinkley, Rockford, Ill. and a florist from Evansville, Ind., whose name the writer cannot now recall.

Thos. C. Rogers has taken the store at 211, 214 Wabash Ave. He started with a street stand at the corner of Wabash Ave. and Adams St. about six months ago.

How about that gentleman from Hinsdale who didn't see how he could make any exhibit?

Geo. W. Miller is rebuilding his greenhouse and making other repairs at his greenhouses.

The pair of *Latania borbonica* which stood near the mantel decorations at the exhibition were as perfect a pair of palms as were ever seen in this city. Though in only 14-inch pots they had a spread of six feet and from nine to eleven absolutely perfect leaves. Mr. J. T. Anthony, the owner, may well be proud of them. It would be difficult to match them.

During the exhibition a reporter on one of the daily papers, in his enthusiasm over the floral arrangements shown, unwittingly stated that they were in advance of anything before seen in America. Mr. Neal of State street read this note and immediately hid himself to the exhibition, where in his usual quiet and retiring manner he confidentially informed an admiring coterie, in a voice which could not have been heard more than a block away, that with the sole exception of himself a gentleman in Boston was the foremost floral artist in America. And while apparently loath to enlarge upon his own talent, Mr. Neal further picturesquely informed his spell-bound audience that he, himself, to wit: Mr. Neal of State street, could while blindfolded, with his back turned toward a table, then and there, without further premeditation compose, as it were, a dinner table decoration which would cause a blood red blush to obscure from sight anything else in the building. Mr. Neal's former reputation for retiring modesty of disposition and total lack of the attribute technically known as "gall" is now firmly established.

Manny Peiser, who is in charge of George Klehm's store, is duly exuberant

over the number of prizes on floral arrangements taken by the entries made from 74 State street.

The Flower Exchange project is moving. Quite a number of subscriptions to stock have been made and two gentlemen stand ready to subscribe the balance as soon as all have had a chance to subscribe. It is desired that the stock shall be scattered in small blocks, every grower and every dealer to have some, rather than to concentrate it in the hands of a few, and all will be given an opportunity to have at least one or two shares. But those who desire to take stock should make their wishes known at an early date, as it is desired to close the subscription books and perfect the organization of the company as soon as possible. The shares are \$50 each, total capital \$10,000.

Greenz & Harms succeed Frese & Greenz in the cut flower commission business at 89 Wabash Ave.

The recent flower show has had the effect of stimulating interest in the new organization, The Horticultural Society of Chicago. It is expected that the future exhibitions will be given under the auspices of the Horticultural Society.

New York.

Trade very dull.

The great amount of chrysanthemums coming in has made the demand for roses very poor, consequently the prices for roses have dropped way down.

Prices for small lots of selected roses remain about the same, but large quantities can be bought for \$15 or \$20 per 1000.

All the stores now have a fine show of chrysanthemums but they do not sell as well as in former seasons. The fine varieties are selling cheaper and may now be seen in most of the smaller stores.

There was quite a jovial meeting held at the Fifth Avenue Hotel last Friday to decide a wage made by the two great chrysanthemum growers, John H. Taylor and Ernest Asmus, as to which of them produced the six largest chrysanthemum flowers for this season. It was decided in favor of Mr. Taylor although it was conceded that those grown by Mr. Asmus were the most perfect. After the "bottle" was opened the chrysanthemums were placed on exhibition in Bro. Scallen's window and were greatly admired by the passing throng.

The remarkable summer-like weather we are having brings forth an abundance of flowers and there is not enough business to use them all up to advantage.

JOHN YOUNG.

SOME DEALERS in hardy perennials should send out bigger plants. A correspondent complains: "The plants I have received are aggravatingly small, sometimes mere morsels, which I lose in a week or two after planting."

HENRY METTE,
Seed Grower and Merchant,

QUEDLINBURG, GERMANY,

(Established 1787.)

Wholesale Catalogue free on application. Special low prices given for large quantities.

Every Florist! Every Nurseryman! Every Seedman!

SHOULD HAVE
OUR TRADE

DIRECTORY.

Address AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a young florist, single as a greenhouse hand. Address
HENRY W. FINE, Coruna, Mich.

SITUATION WANTED—As head-gardener in some public park, cemetery or private place. Thoroughly competent to take full charge. Address
D. C. AMERICAN FLORIST, Chicago.

SITUATION WANTED—By a lady with florist. Experienced in bookkeeping. Could buy an interest in the business. Address
D. B. BRY, Winter St., Englewood, Ill.

SITUATION WANTED—By a young man, 25 years of age, in a store; thoroughly experienced in making up floral designs and bouquets. Best references. Address A. M. Villa Nova P. O. Jail Co., Pa.

SITUATION WANTED—By young, single man as florist, 3 years' experience. Good rose grower, and first-class at cut flower and design work. Good references. Address
NINETEEN, care American Florist.

SITUATION WANTED—By a practical business man, as manager or foreman, thoroughly versed in the growing of roses, carnations and the forcing of all kinds of plants and flowers. None but good parties need apply.
FLORIST,
125 North Clark St., Chicago.

WANTED—Trade lists and catalogues. Address
GUS NOACK, 45 Buell street, Batavia, N. Y.

WANTED—By December 1, a good florist or gardener for growing a general stock of plants and cut flowers for the retail trade. Fall on or write
F. FOUNTAINE, Racine, Wis.

FOR SALE—Florist business, thoroughly equipped and stocked. Doing a fine business at home and abroad. A thriving one city and district, for good reasons. A good investment. Four houses. The real estate for sale or lease to purchaser. Price \$2,000. Address
BAIGANS, care Am. Florist.

FOR SALE—A florist establishment, one greenhouse 12x18, and two 12x10 feet each, heated by water (weathered); 25 acres of good land, made with pasture, plenty fruit; dwelling house, barn and other out-buildings good; city and district, all buildings new and in good order. One hour from New York City, and a mile from the city. \$4,800, or will sell the greenhouse property separate for \$2,600. Address P. O. Box 165, Ramsey, N. J.

WANTED.

A RARE CHANCE for some TEMPERATE, COMPETENT and DETERMINED florist (married preferred). Warm climate, excellent water, healthy location. This establishment 12 years planted, and FREE from debt. With or without capital the right man can find a good position. Correspondence solicited. Address
A. Q. M., care American Florist.

WANTED.

By an A No. 1, practical business man and florist, SITUATION, either as foreman, manager or will take working interest in some good establishment where ability and knowledge equals capital. Can give excellent references. None but good parties need reply. Address
COMPETENT, care Chicago Floral Co., Chicago.

DANISH CAULIFLOWER SEED

Gives at fact the very best results.

Extra Early DWARF ERBUT,
and **Earliest DWARF SNOWBALL,**
the most profitable two sorts for forcing, true to name and first quality, own home grown seed. For prices, samples and further information, apply to

CARL FRISENETTE, Seed Grower,
4 Svanholmvej, COPENHAGEN, V.
Mention American Florist.

G. J. MOFFATT,

Manufacturer of

SEED BAGS

ENVELOPES OF ALL KINDS.
Printing a Specialty.

NEW HAVEN, CONN.

Samples and Prices on Application.

Mention American Florist.

Grounds at Hotel Del Monte, Monterey, Cal.

No matter at what season of the year this delightful place is visited one always finds a wealth of flowers that can not be excelled anywhere.

Chrysanthemums are planted out by the thousand and at the present time a grand display, especially a long border on west side of the hotel, where numerous varieties are planted indiscriminately, presenting a much finer appearance than when planted in long lines of a distinct color.

The mixed borders are gay with numerous varieties of annuals and perennials, and will probably remain so for some time. A large variety of annuals are grown at all seasons of the year and are one of the chief attractions of the grounds. Plants are always in readiness to succeed those past their usefulness.

A curious plant blooming at the present time is *Dahlia imperialis*; it attains a height of 14 to 16 feet and bears a number of lily-like blossoms of a pale lilac color; this variety is a native of Mexico, makes vigorous growth during spring and summer, generally flowering in the month of October. The cool weather and humid atmosphere during the summer months is admirably suited for dahlia culture.

In an angle of the hotel formed by junction of main building and west annex, is a fine sub-tropical border consisting of wiegandias, ricinus, cannas, caladiums, cannabiss, ruellias, bocconias, and towering above all are four giant *Musa Ensete* from 20 to 30 feet high, with a girth at one foot from ground of 7½ feet; one plant is producing seed, which will probably ripen.

Another border that should not be overlooked is the one devoted to the fuchsias; here they are growing in luxuriance, every branch laden with their coral blossoms, standards or tree fuchsias in center of border with pyramidal bushes on each side. The principal varieties grown are Storm King, Phenomenal, Miss Lucy Finnis, Globulus, Graclius, Avalanche, Rose of Castile, Venus de Medici, Tower of London, Wave of Life and Sunray.

The shrubberies are gay with cosmos, which are planted in open places and have a very pleasing effect even at a long distance. It does not signify whether sown early or late they have the same season for flowering.

At the Show.

"What possible beauty can you find in chrysanthemums? To me they are nothing but ill-smelling weeds."

"So I thought when I first saw them. But they grow in your favor. The first symptom is a feeling of wonder at the endless variety of color and form. And after you have become familiar with those within reach you begin to hunger for still different colors and forms, having by this time an abiding faith in the plant to produce any apparently impossible combination."

Diseased Callas.

My callas have been attacked by a disease which induces rot at the neck of the bulb and in a short time the whole plant is rotted off. This is the third year my callas have been affected in this way. Can any reader of the FLORIST tell me what the disease is and how to prevent it?

P. A.

LOUISVILLE, KY.—F. Walker & Co., are building four houses. Three are 80x20 and one 130x18½.



READY THIS WEEK. LILY OF THE VALLEY.

Select Pips.
VALLEY CLUMPS, SPIRÆA JAPONICA, strong clumps, ready Nov. 25.
H. P. ROSES, 2 year old, imported and home grown.

TUBEROSES, fine, well cured bulbs.
HOLLY AND GREEN.

W. W. Barnard & Co.,
Successors to HIRAM SIBLEY & CO., Chicago,
6 and 8 North Clark Street,
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C. H. JOOSTEN,
3 Coenties Slip, NEW YORK,
—IMPORTER OF—
FORCING BULBS,
IMPORTED HARDY ROSES,
Strong Clematis, Etc., Etc.

Probst Bros. Floral Co.,

1017 Broadway, KANSAS CITY, MO.

DAHLIAS, named varieties, single and double, per 100, \$8.00.

TUBEROSES, Pearl, per 1000, \$10.00.

GREVILLEA ROBUSTA, 3-inch, per 100, \$8.00.

AZALEAS, grand stuff, write for prices.

FOR SALE BY 500 OR 1000.
FRENCH AND ENGLISH
MAMMOTH PANSIES.

First-class plants, per 1000, \$4. Cash with order.

G. GROSS, Florist, Quincy, Ill.

G. DUECH BULBS,
NOW READY.
THE WISCONSIN FLOWER EXCHANGE,
133 Mason Street, MILWAUKEE, WIS.

WE WANT YOUR ORDERS NOW

— FOR —

Chinese Narcissus,

AURATUM, LONGIFLORUM, ALBUM, RUBRUM,
KRAMERI, ELEGANS, AND OTHER
JAPANESE BULBS.

CALIFORNIA LILY BULBS.

Australian Palm Seeds.
California Palm and Flower Seeds.

JAPAN PALM, SHRUB AND FLOWER SEEDS.

Our new Wholesale List of above, and of Trees, Ornamental Shrubs, Plants, Conifers, etc. now ready. SEND FOR IT.

H. H. BERGER & CO.,
P. O. Box 1501, SAN FRANCISCO, CAL.

STILL IN STOCK.

A few thousand ROMAN HYACINTHS, at \$23.00 per thousand.

Moderate quantities of several varieties choice named TULIPS for forcing.

Dutch Hyacinths and Narcissus, Callas, Etc.

Choice AURATUM LILIES and LILY of the VALLEY to arrive soon.

THE JAMES KING SEED CO.,
170 Lake Street, CHICAGO

AUGUST ROLKER & SONS

NO. 136 & 138 W. 24TH ST.,

NEW YORK,

Importers and Dealers in

**FLORISTS' SUPPLIES, SEEDS,
BULBS, PLANTS, ETC.**

R. VAN DER SCHOOT & SON,
HILLEGOM, HOLLAND.

LARGEST GROWERS OF

**HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES
OF THE VALLEY, ETC.**

Headquarters for Forcing Bulbs. Wholesale Importers should write us for prices.

Our new Bulb Catalogue is now ready. Will be mailed free on application.



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GARDEN SEEDS**

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:
25,000 Dwarf budded Roses in sorts.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Pontica in sorts.
2,000 Clematis, extra strong plants.
Trees, Shrubs, Evergreens, Conifers, Pæonias and other herbaceous plants.

PLANTS FOR FORCING AND DECORATING.

Address **P. OUWERKERK,**
P. O. Box 1845, NEW YORK CITY.
Catalogue on application.

THOMAS YOUNG, JR.,
=WHOLESALE FLORIST,=
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**Sole Agent for the Following
well-known Growers:**

ERNEST ASMUS,	-	West Hoboken, N. J.
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S. C. NASH,	-	Clifton, N. J.
JOHN REID,	-	Jersey City, "
A. C. TUCKER,	-	Nyack, N. Y.
WEIGAND BROTHERS,		West Hoboken, N. J.

And many others.

ALL THE CHOICEST VARIETIES OF
ROSES, CHRYSANTHEMUMS, ORCHIDS, LILAC,
LILY OF THE VALLEY, TULIPS, ETC., ETC.

Answers to Queries.

SWEET PEAS.—"What kinds would you recommend to me to grow?" Pure white, Miss Blanche Ferry (blush), and luscious, scarlet.

ASTERS.—"About what date should I sow aster seed in order to have plants to cut flowers from, from September 15 to October 15?" That depends upon local conditions. I sow in the last week of May and again during the first week of June, and from these sowings get nice September flowers. "When should the plants be transplanted?" As soon as they are large enough, say four inches long, measuring the leaves. "What varieties would you recommend, and whether tall or dwarf?" Tall varieties Zingibell's, Rose-flowered, Victoria and Perfection asters all are good, and the white color in each, most desirable.

TULIPS.—"Would you advise planting my new tulip bed to asters (as the tulips will be in the ground but out of the way) or would the necessary watering to the asters be an injury to the tulip bulbs? The soil is a deep sandy loam perfectly drained, with sand and gravel sub-soil." If for profit, by all means lift and remove the tulip bulbs before you plant out the asters; this is not so much for the good of the tulips as for the benefit of the asters which like a deeply worked well cultivated soil. If the tulips are not quite ripe before you are ready to plant the asters lift them with whatever earth may adhere to them, and heel them in pretty close together in trenches in a slightly shaded place, there to remain till they are ripe enough to lift, dress and store past for use again next fall. W. F.

Mixed up Iceland Poppies (Papaver nudicaule).

A reader who had bought some of these poppies says he got "yellow Iceland poppy (Papaver nudicaule) for white one ordered, and the improved orange scarlet at higher rate, proves no deeper scarlet orange than my own seedlings."

Now, there is something peculiar about the coloring of the flowers of these poppies which is well to know. The typical color is yellow, but there are also white flowered and orange-scarlet flowered forms of it. And when these varieties are grown near to each other they are apt to become cross fertilized to such an extent that we really can not tell beforehand what color of flowers seedlings raised from them may produce. I often have had yellow flowered poppies from seedlings raised from seeds sown from plants bearing white flowers, orange colored ones from yellow parents, etc., and it is a very common occurrence that the flowers may come striped yellow and white, or yellow and orange, after the fashion of blossoms of a four-o'clock. In order to secure flowers true to the kind of the parent, we should grow the different colored Iceland poppies far apart from one another. The general method of propagation is from seed. And I have found that it is a safe plan to replenish the stock from seed every year, although P. nudicaule is a true perennial it blooms the first year from seed, and does well the second year, but after that it is not reliable. Besides the ordinary, there are some large flowered forms of it, notably the Munstead strain. F.

KNOXVILLE, TENN.—We have caught the chrysanthemum fever and arrangements are being hastily made to hold an exhibition on a small scale this month.

ROSE HILL NURSERIES, New Rochelle, N. Y.



PALMS and DRACÆNAS.

LATANIA BORBONICA, 3-in. pots, strong, 15c. each.
CHAMEROPS EXCELSA, 3-in. pots, strong plants, 12½c.; 2-in. pots, small, 6c.
CORYPHA AUSTRALIS, 2-inch pots, 8c.
WASHINGTONIA ROBUSTA, 4-inch pots, 25c.; 3-inch pots 15c. 10 to 15 other varieties in 5 to 10 and 12-in. pots, some good specimens at low down prices. Over 100 CYCAS REVOLUTA, from \$1.00 to \$5.00 and \$12.00, according to size.
DRACÆNA TERMINALIS, 5 in. pots, strong plants, 40c.; 4 in. pots 20c.; 3 in. pots 12c.; 2½ in. 6c.
DRACÆNA INDIVISA, 5-in. pots, strong plants 35c.; 4 in. pots 20c.; 3 in. 12c.; 2-in. \$5.00 per 100.
 Send me your orders, I feel sure I can give satisfaction.

W. J. HESSER,
PLATTSMOUTH, NEB.
 Mention American Florist.

FERNS. PALMS.

40,000

Fern Seedlings, in the following varieties, at \$5.00 per 100, from 2½-inch pots.

ADIANTUM	PERIS TREMULA
" C. ROENBECKII.	" ARGYREA.
" GRACILLIMUM.	" SERRULATA var.
LATANIA BORBONICA, 4-inch pots,	\$3.00 \$25.00
" " 3-inch pots,	1.50 15.00
" " 6-inch pots,	10.00
PANDANUS UTILIS, 6-inch pots,	9.00

Also a large stock of MUSA SUMATRANA, the best of all var. Bananas, \$1.00 each; \$80.00 per 100.

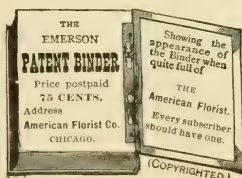
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GEO. WITTBOLD,
 School & Halsted Sts., LAKE VIEW, CHICAGO.
 Mention American Florist.

HYDRANGEAS.

Fine plants from 5-in. pots, \$12.00 per 100. They may be safely sent by freight. Send enough money to prepay charges.

DOUBLE WHITE PRIMROSES, 2-inch pots, \$5.00 per 100. We will have again next spring small plants of Tuberous Begonias, separate colors.

BRAUER & RICHTER, McConnelville O.



IMMENSE STOCK OF

PALMS, ORCHIDS, FERNS.

NEW AND RARE PLANTS.

SIEBRECHT & WADLEY.

ORCHIDS! ORCHIDS!

Lowest Prices Ever Offered.

Send for special prices of **SURPLUS STOCK** which must be sold now.

Established 1854. **BRACKENRIDGE & CO.,**
 Govanstown, (Baltimore), Md.

A. LIETZ,
 P. O. Box 644. RIO DE JANEIRO.
**PALM SEEDS, ORCHIDS,
 NEW CALADIUMS.**

For price list apply to
Messrs. ADOLPH v. ESSEN & CO.,
 Gr. Reichenstrasse, 73, Hamburg, Germany.

JAPANESE PLANTS.

Trees, Shrubs, Bulbs, Seeds, Etc.

offered at low prices by

FELIX GONZALEZ & CO.

Direct Importers and Exporters,
 303 to 312 Wayne and Crescent Ave.,
SAN FRANCISCO, CAL.

Wholesale Catalogue mailed free on application.

FOR SALE.

THE CUTS

USED IN ILLUSTRATING THIS PAPER.

Write for prices on any which you have seen in previous issues and would like.

AMERICAN FLORIST CO.

CHICAGO.

OUR NEW

DIRECTORY

giving a complete and accurate list of the Florists, Nurserymen and Seedsmen of the United States and Canada is

NOW READY.

Price, \$2.00.

AMERICAN FLORIST CO.,

54 La Salle Street, CHICAGO.

VERBENAS.

20 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$25.

Rooted Cuttings of same, 100 \$1; 1000 \$9.
Fine stock Heliotrope, 2½-in. \$3 per 100.
Double Fringed Petunias, 12 vars. 2½-in. \$4.00 per 100.

Adiantum Cuneatum, Decorum and Gracillimum, 5-inch, strong, \$15 per 100.

Primroses, double, per 100 \$12.00.
" single, per 100 \$8.00.

Oboconica, per 100 \$6.00.
Geraniums—latest Novities.

Latania borbonica, 5-in. \$4.00, 4-in. \$3.00 per dozen.

Miscellaneous stock of all kinds.

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.

BARGAINS.

Must reduce our Stock preparatory to moving. Per 100

Latania Borbonica, 4-in. pots, one characterized leaf..... \$7.10

Adiantum Cuneatum, 2 1/2 in. and 5-in. pots, \$4.50 & 12.00
" Pubescens, 5-inch pots..... 10.00

Pteris Hastata, 4-inch pots..... 5.00

Onychium Japonicum, 3-inch pots..... 4.00

Ampelopsis Veitchii and Lygodium Seandens, 4-inch pots..... 4.00

Dracenas, Roses, Camellias, Ivy, Hibiscus, Passiflora, etc. All good stock, at low prices.

Less 5 per cent. for cash. Goods shipped f. o. b. N. Y. New York to all parts of the United States and Canada.

ASTORIA NURSERIES,
ASTORIA, LONG ISLAND CITY, N. Y.

ROSES

FOR IMMEDIATE PLANTING

Duchess of Albany..... 2-inch..... \$12.00

Mme. Hoste..... 7.00

La France..... 5.00

Centiers..... 4.00

Perles..... 4.00

Niphetos..... 4.00

Mermets..... 4.00

Brides..... 4.00

Bon Silenes..... 4.00

Gen'l Jack, 2-in. \$40 per 1000; 3-in. \$85.00 per 100.

H. Perpetual, 40 var. 2-in. \$50.00 per 1000.

SEND FOR LIST.

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.

ROSES.

Perles, Mermets, Cooks, Brides, & Souv.
4-in. Aml. strong plants..... \$7.00

Hybrid Perpetuals, open ground, \$8 & 10.00

Early Climbers, open ground..... \$8 & 10.00

Teas, from open ground..... \$4 & 6.00

Ampelopsis Veitchii, strong plants..... \$8 & 10.00

Ver Begonias, fine varieties..... \$8 & 10.00

VERBENAS, strong and healthy.

Per 100 Per 1000
General Collection, 2½-inch pots..... \$7.10 \$25.00
Mammoth Collection, 2½-inch pots..... 4.00 34.00

WOOD BROTHERS,

(Successors to L. C. WOOD & BRO.), FISHKILL, N. Y.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.

Ampelopsis Veitchii.

Strong 2½-inch pots, \$3.00 per 100.

Jack Roses.

3½-inch pots, \$8 per 100; \$70 per 1000.

Address **J. G. BURROW,**

FISHKILL, N. Y.

Mention American Florist.

"CREAM OF THE SHOWS."

A collection of the best **50** Chrysanthemums, selected by us from the New York market, the Philadelphia, Indianapolis and Chicago shows.

50 Plants March 1 for \$10. Best 25 for \$6. Orders should be booked now.

VAUGHAN'S "FLORISTS SET" FOR 1891.

10 New Seedlings of 1890. 10 Plants March 1 for \$5.

AMERICAN CHRYSANTHEMUM SEED.

A strain of Double Japanese which has produced 95 per cent. double flowers. Out of one lot of 25 plants from this strain, six were sold the past month for \$200.00.

Price per trade packet, \$1.50.

J. C. VAUGHAN, GREENHOUSES, WESTERN SPRINGS, CHICAGO.

CARNATIONS. All the leading sorts and novelties. Eight 100-foot houses.

COLEUS. Twenty-four varieties, all first-class. An immense stock.

GERANIUMS. The best twenty-four out of 125 varieties.

ALTERNANTHERA. Red and yellow in quantity.

Send for list. The prices and quality are sure to please.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

John Laing & Sons,

SEED, PLANT AND BULB MERCHANTS,

ROSE, FRUIT TREE AND VINE GROWERS,

FOREST HILL, LONDON, ENGLAND, S. E.

SPECIALTIES:

Tuberous Begonias, Caladiums, Orchids, Chrysanthemums and Gloxinias, Roses, Fruit Trees and Vines, Genuine Seeds and Bulbs, Greenhouse and Stove Plants, Clivias (Imantophyllums), Etc., Florists' Flowers, Etc.

Descriptive Catalogues Free, and all Information on Application.

Mention American Florist.

CUT FLOWERS OF CARNATIONS.

I am ready to make contract for a regular supply of Carnation florets the coming winter. We have a splendid assortment of Fancy colors—Yellow, Scarlet, Carmine, Crimson, White, Pink and Variegated, and can send them mostly on long stems.

CHAS. T. STARR, Avondale, Chester Co., Pa.

Mention American Florist.

Rooted Cuttings for Cash Buyers.

COLEUS.

I can supply ten best varieties, in any quantity.

Also Geraniums and Alternantheras.

SEND FOR PRICE LIST.

S. B. FIELD, Roselle, N. J.

GLADIOLUS BULBS.

Prevailing Colors, Pink and White.

Over 100 named varieties, and a number of choice seedlings, all mixed together. This collection has never been culled, and it has received a number of first premiums. In fact it has never failed to do so when exhibited. To avoid retaining these bulbs, offer them this fall at \$10.00 per 100 for first size; second size, \$7.50. A quantity of small bulbs and bulbets at a bargain.

M. CRAWFORD, Cuyahoga Falls, Ohio.

EPHYLLUM TRUNCATUM.

15 to 25 cents each, or \$1.50 a dozen by mail.

—Cash with order.

ROBERT WILSON,

346 Broadway, New York, R. I.

C. RAVIER, Florist,

MOBILE, ALA.,

Has on hand an extra fine lot of AZALEAS, CAMELLIAS, MAGNOLIA GRANDIFLORA, and other Sub-Tropical plants, grown out doors, and sold cheap. Write for prices.

Now Ready for Cash.

Per 100

Begonia Bruanti alba, best white, winter bloomers, 2½-inch, - \$ 6.00

same, 3-inch, - 10.00

Begonia Metallica, 2½-inch, - 6.00

" 3½-inch, - 12.00

" Semperflorens rosea, 2½-inch, - 6.00

" 4-in. - 12.00

Abutilon Eclipse, 2½-inch, - 5.00

Manettia bicolor, 2½-inch, - 7.00

" 3-inch, - 11.00

Agapanthus, 3½ and 4-inch, - 8.00

Large thrifty stock in fine shape, ready to ship.

Lane's Mountain View Greenhouses,

RUTLAND, VT.

FOR SALE—PRIMROSES.

Best colors, 100 in 2½-inch pots, strong plants, suitable for 4-inch; 25 double white, balance mixed, \$1.00. Also 100 seedling Primula Obconica, 3.00 each.

A. J. BINLEY, Glen Falls, N. Y.

CANNA ROOTS.

Per 100, \$5.00, large and well ripened. Apply to Superintendent of Oak Grove Cemetery,

DELAWARE, OHIO.

Horticulture at the World's Fair.

ED. AM. FLORIST.—At a meeting of the Gardeners' and Florists' Club, of Boston, held in Horticultural Hall, on November 4, 1890, it was unanimously voted to enter our strongest protest against the merging of the Horticultural Department into the Bureau of Agriculture of the Columbian Exposition.

J. J. CUNNINGHAM, Sec'y.

L. H. FOSTER, Pres.

The Florists' Club of Philadelphia adopted a similar resolution at its meeting held also on the 4th inst.

Hot Water Under Pressure.

In reply to Mr. Meidam's query in last week's *Florist* would say, we have heated our store for three years with hot water, using a copper jacket boiler and about 800 feet of 1-inch pipe. It works like a charm. Our expansion tank is up stairs, fully 22 feet higher than the boiler and we heat the shop up stairs as well as the store. We use 2-inch pipe from the boiler to the first radiator, or a short distance, then only 1-inch for all the heating surface. We think that 1-inch radiating pipes will be found more satisfactory than 2-inch. If we were to re-pipe I think we would use 3/4-inch pipe, but 1-inch is near enough and far better than 2-inch.

Syracuse, N. Y.

A. D. PERRY.

New Decorative Plants.

According to the New York *Mail and Express* of October 28, several new decorative plants are being used by the florists of the metropolis. In the description of a church decoration we find the following paragraph:

The altar of the Church of the Strangers is elaborately decorated with choice palms. The center of the bank is a large rubber plant of the *funeck's alatis* variety. Trimmed up to the center on either side are beautiful palms of the variety *fencous revoluta* and *lantone*. The base of the bank is festooned with ropes of laurels, smilax and chrysanthemum. On the extreme outside from the large rubber plant in the center are grouped choice and beautiful palms of the *recurv* and *centle* variety.

It is to be deeply regretted that the *Mail and Express* reporter did not give a feverishly expectant public an accurate description of these novelties, and especially of the "recurv."

CHRISTMAS EVERGREENS.

TO THE TRADE.

Holly.....per bbl. \$2.00
Mistletoe....." 3.00
English Ivy....." 100 2.50
Cut flowers in season: Violets a specialty.
MRS. F. A. GRANTHAM, Vaiden, Miss.

STANDARD FLOWER POTS

On and after November 1 these prices will take effect on the following sizes.

Size.	Price of 1000.	No. in crate.	Price per crate.
1 1/4 - in	\$2 25	2000	\$4 50
2 "	2 70	1500	4 00
2 1/4 "	3 00	1200	3 60
2 1/2 "	3 20	1000	3 20
3 "	4 20	720	3 00
3 1/2 "	6 30	575	3 60
4 "	7 30	407	3 00

We want your trade. We guarantee satisfaction. Shipping facilities unequalled.

SIPPLE, DOPPEL & CO.,
SYRACUSE, N. Y.

KOSTER & CO.,
BOSKOOP, HOLLAND,

OFFER:

Azalea mollis, transplanted in 1890, nice plants raised from seed of the best only.
100 plants, 15-20 buds.....\$12.00.
100 plants, 20-30 buds.....15 00.

Paeonia sinensis,

100 in the best sorts.....\$10-\$14 00.
100 without names.....8 00.

Rhododendron hybr. arb. transplanted in 1890. 100 in the best sorts, covered with buds.....\$25-\$40.00.

Clematis, 100 in best sorts, 20-25 00.

Staphylea Colchica, *Lilacs*,
Deutzia, Etc., Etc.



ALL SIZES OF SINGLE AND DOUBLE THICK

GLASS FOR GREENHOUSES.

ALL GLAZIERS' SUPPLIES.

Write for Latest Prices.

CYPRSS GREENHOUSE MATERIAL

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SASH

BARS

JOHN L. DIEZ & CO.
530 North Halsted Street.
CHICAGO, ILL.

HOT BED AND VENTILATING SASH

FLORISTS' HAIL ASSOCIATION

OF AMERICA.

Insures Greenhouses against damage by hail. For full information, address

JOHN G. ESLER, Sec'y, Saddle River N. J.

2,000,000
EVERGREEN CUT FERNS

Especially for Florists' use.

\$1.50 per 1,000; 5,000, \$6.25; 10,000, \$10.00.
Discount on large orders. Special attention paid to supplying the trade all winter. Nothing but first-class stock will be shipped.

25,000 YARDS
BOUQUET GREEN WREATHING,

for HOLIDAY SEASON, all wound on a cord with fine wire, and warranted strong enough to hold up in 50 yard lengths without separating (any size made to order). 100 yards of the standard size constantly on hand after Oct. 1st. Orders by mail or telegraph shipped at once. Terms Cash, or goods will be sent C. O. D.

3 in. diam. flat or one-sided.....per yd. \$.04
3 in. diam. round....." .06
3 in. diam. round....." .08
3 in. diam. round....." .10
Discount on large orders.



SPHAGNUM MOSS.

Long, clean fibre, barrel or sack, \$1.00;
Six barrels, \$5.00; Twenty barrels, \$15.00;
One hundred barrels, \$50.00.

This Moss is warranted free from leaves, sticks and rubbish of all kinds.

Christmas Trees

OF ALL SIZES.

Special attention paid to furnishing in car load lots

Smaller sizes, from 3 to 10 ft. American White Spruce, very nice shape and full.

Larger sizes, from 10 to 25 feet, Balsam Fir.

Write for Prices and Terms.



L. B. BRAGUE,

DEALER IN FLORISTS' SUPPLIES.

HINSDALE, MASS.

CITY STAND DURING THE HOLIDAYS,
47th St and Lexington Ave., New York.

STANDARD POTS

made by the latest improved machinery, are better and cheaper than those made by the old way. Price, P. O. B. cash here, free of charge.

3 - inch, per 1000, \$3 25 3 - inch, per 100, \$3 50
4 - " " 3 50 4 - " " 3 00
5 - " " 4 00 5 - " " 2 00
6 - " " 5 00 6 - " " 1 50
7 - " " 5 25 7 - " " 1 20
8 - " " 6 00 8 - " " 1 00
9 - " " 6 25 9 - " " 80
10 - " " 7 00 10 - " " 70
11 - " " 7 25 11 - " " 60
12 - " " 8 00 12 - " " 50
13 - " " 8 25 13 - " " 40
14 - " " 9 00 14 - " " 30
15 - " " 9 25 15 - " " 20
16 - " " 10 00 16 - " " 10
All pots shipped as first-class first rates. Terms cash.

HILFINGER BROS, Fort Edward, N. Y.

SEND FOR A COPY

— OF OUR NEW —

TRADE DIRECTORY

Price, \$2.00.

AMERICAN FLORIST CO., Chicago.

S. A. F. Attention

Our defeated competitor in "Standard" Flower Pot contest at the Boston meeting, for the **Certificate of Highest Merit**, reflects on the members of the Committee of Award as not being impartial in their decision. The members of that Committee were M. A. Hunt, Terre Haute, Ind., Chas. Henderson, of the firm of Peter Henderson & Co., New York, and Wm. K. Harris, Philadelphia, Pa. No fairer or more competent committee could be selected from the members of the S. A. F., and as far as diligent inquiry reveals, their decision meets with the approval of everyone excepting A. H. Hews & Co.

The official programme gave notice that the Certificate would be awarded to the display "which most nearly approaches the 'Standard,' such display shall consist of not less than one dozen of each size, made from working molds and not turned down." The sheet with drawings of the pots (which was gotten up by A. H. Hews & Co., under the instructions of the Committee of S. A. F. and sent to the different potters for their guidance) shows 17 sizes, and the number we exhibited; one dozen of each, as required. In regard to the statement published by A. H. Hews & Co., that "very many" of our pots were **"either ground, filed, turned or sand-papered to size,"** we wish to distinctly say that this is **FALSE**. The pots we exhibited for the Certificate were made exactly as we make them for our customers, and were not altered in any way whatever; in fact it is impossible to alter the inside measurement after a pot is once made; a mold that will make one pot correct will make any number (until the mold wears out) exactly the same. In reference to the absurd "propositions" of Messrs. A. H. Hews & Co., we decline to be a party to the proposed exhibitions as it would be a gross insult to the honorable gentlemen of the committee, who, after giving their time and labor to the society, are at least entitled to common courtesy.

THE WHILLDIN POTTERY CO.,
713 & 715 Wharton St., PHILADELPHIA, PA.

S. A. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

Many of our friends agreeing with us that the award on Standard Pots at our late Exhibition was an unjust one, we shall use the advertising columns of the AMERICAN FLORIST to state our side of the question.

We asked the Executive Committee to give us an impartial committee of award. The following propositions should convince anyone whether **WE FEEL** that we have had such a Committee.

The following is the text of the matter in question, taken from the official programme:

"Manufacturers of FLOWER POTS are notified that a Certificate of highest merit will be awarded to that display of Pots shown at this exhibition, which most nearly approaches the Standard. Such displays shall consist of not less than one dozen of each size, made from working molds and not turned down."

One member of the Committee of Award said that we were not entitled to any award because we exhibited but fifteen sizes, while others exhibited seventeen, and that seventeen cuts were represented on a white sheet of Standard Pots. We fail to see that the award was offered for any specific number of sizes, but that twelve of each size should be presented. **A MUCH MORE IMPORTANT PART OF THE COMMITTEE'S ANNOUNCEMENT** was that the pots should be **MADE FROM WORKING MOLDS AND NOT TURNED DOWN**. We do not hesitate to make this public statement that the Flower Pots to which was awarded the Certificate of highest merit were **VERY MANY** of them **EITHER GROUND, FILED, TURNED or SAND-PAPERED** to size, and for that reason alone were not entitled even to a measurement by the Committee of Award.

WE WISH TO MAKE TWO PROPOSITIONS.

First. We will put up **\$1,000 in Cash** and submit the same pots exhibited at the late Exhibition against the pots exhibited by our competitor, and leave it to an impartial committee of three, and if our pots do not come the nearest to the requirements, we will present the \$1,000 to the fund of the Society of American Florists.

Second. We will put up **\$2,000 in Cash** and produce 500 pots of each size from 1 $\frac{3}{4}$ -inch to 7-inch inclusive, and 250 pots each from 3-inch to 12-inch inclusive, making 7,250 pieces, made from the same moulds in which the pots we exhibited were made, and all shall be of the proper thickness in all respects, against an equal number of pots made from the same moulds that produced the pots receiving the award, and if an impartial committee do not give us the award we will present the money and the pots to the Society of American Florists for an experiment station. And if we are allowed to choose one of the committee of three, we will select our honorable Treasurer Mr. M. A. Hunt, of Terre Haute, Ind.

A. H. HEWS & CO., North Cambridge, Mass.

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HEADQUARTERS for CHRISTMAS TREES!

Wisconsin Blue Spruce.



The finest of all in form and color. Well furnished, selected trees, carefully packed in light, strong crates, containing 25, 50 and 100 trees, delivered, Freight Charges Paid to any point within 300 miles of Chicago, at prices here quoted:

	25	50	100
4 to 6 feet	\$ 3.50	\$ 6.00	\$10.00
6 to 8 feet	6.00	11.00	20.00
8 to 10 feet	10.00	18.00	30.00
10 to 12 feet	15.00	25.00	45.00
12 to 14 feet	20.00	35.00	60.00

The two largest sizes are of Balsam Fir; fine selected specimens.

Special correspondence solicited on car lots.

As the Western Classification of roads now exact, by a recent ruling, ACTUAL PREPAYMENT of all freight charges on Christmas Trees, I am obliged to assume these charges, and also all risks of transportation; hence I am under the necessity of insisting upon the following:

TERMS OF PAYMENT:—At least one-half cash with order; balance 30 days approved credit. All bills to be paid not later than January 1st 1891. No attention will be paid to orders not complying with above terms.

W. D. BOYNTON, SHIOCTON, WISCONSIN.

Gas for Fuel.

I would like to hear from any one who has been using gas for fuel in heating greenhouses. I have an upright steam boiler and am anxious to use gas for fuel. Would like information regarding burners, cost, where to be obtained and probable amount of gas used by each burner per hour.

G. A. KUHLE.

Pekin, Ill.

AMONG the mail received at this office November 5 was a sealed envelope post-marked South Bethlehem, Pa., which was found to be empty when opened. Will our correspondent please forward the intended contents.

CHRISTMAS TREES

DECORATIVE GOODS, ETC.

Personally selected, extra fine Balsam and Spruce, f. o. b. here.

4 to 5 ft. 10c, 5 to 6 ft. 14c, 6 to 7 ft. 18c, 7 to 8 ft. 25c, 8 to 10 ft. 35c, 10 to 12 ft. 50c, 12 to 14 ft. 65c. 5 per cent. off in 50, 10 per cent. off in 100, 15 per cent. off in 200 tree lots. Trailing Fines, 8c. 50.

Bouquet Green, 35c per 100 lbs.
Ribbon Vase Trimmings, \$1.50 per bbl.; 5 bbls. \$7.00.
Mixed Trimmings, \$1.00 per bbl.; 5 bbls. \$4.50.
Fine Rotted Peat, \$1.10 per bbl.; 5 bbls. \$4.00.
Moss, \$1.25 per bale; 5 bales \$5.00.

5 per cent. off on all orders received before Nov. 25.
Best of shipping facilities; four through routes.
Send for Telegraph Code. Write or wire for estimate before you buy. Bank references required.

JOSEPH BANCROFT,

General Wholesale Agent for CALDWELL, the Woodsman, Evergreen, Ala.
Cedar Falls, Iowa.

CATALOGUES.

FLORISTS and SEEDSMEN write to

The Aldine Printing Works, Cincinnati, O., for samples and prices before ordering elsewhere.

[Mention The American Florist.]

Order Now

A Copy of our New

TRADE DIRECTORY

PRICE, \$2.00.

AMERICAN FLORIST CO., 54 La Salle St., Chicago.

A. CEFREY'S

Patent Improved Florists'



Immortelle Letter and Pin Fastener.

CEFREY LETTER CO.

GENTLEMEN:—I find the new machine made Immortelle Letters manuelle handled by you very safe and in many respects superior to anything of the kind we have ever handled. Their uniformity of shape, size and color, the convenient form in which they are put up, and the excellent device for fastening them to the work, are among the most commendable points in your letters. Please double my last order and deliver as soon as possible. Yours truly,

W. J. STEWART.

CEFREY LETTER CO., 13 Green St., Boston.

DEAR SIR:—Please ship me five thousand letters as soon as possible. They are the best and most practical letters in the market. The pin fasteners are a long way ahead of the old fashioned way of wiring. Yours truly,

N. F. MCCARTHY.

CEFREY LETTER CO., Boston, Mass.
DEAR SIR:—Send at once ten thousand small letters and five hundred large (two inch.)

GALVIN BROS., Boston.

We wish to announce to all florists that we have removed to much larger quarters, **No. 13 GREEN STREET, BOSTON.** We make our letters by machinery; they are not only more perfect in size, shape and color, but are the best and cheapest in the market. Our 2-inch letters are only two and a half cents, and the 1½-inch letters are only two cents apiece. Your customers will have no others. Be up with the times! Send us your orders and we will ship you a supply for this winter. **They are the best in the market.**

THE CEFREY LETTER CO., 13 Green Street, BOSTON, MASS.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VI.

CHICAGO AND NEW YORK, NOVEMBER 20, 1890.

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THE AMERICAN FLORIST

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AMERICAN FLORIST COMPANY.

54 La Salle Street, CHICAGO.

Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; WM. J. STINDLER, 7 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

Florists' Hall Association.

Insures greenhouse against damage by hail.
JOHN G. ESLER, Secretary, Saddle River, N. J.

Florists' Protective Association.

Gives information to members regarding the financial condition and business integrity of those in the trade.
L. B. BEATTY, Sec'y, Oil City, Pa.

American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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WE HAVE in hand reports of a number of other chrysanthemum shows which were crowded out of this issue through lack of space. They will appear next week. No report had been received from Cincinnati or Buffalo at time of closing for this issue.

IT IS REALLY remarkable the amount of space the daily press all over the country is now giving to the chrysanthemum and the chrysanthemum shows. A large number of the articles printed are quite creditably illustrated with drawings of specimen blooms and plants. Certainly no other flower has such liberal and continuous mention by the daily press.

ΘήγυασηΚεμum Σήνωα.

Philadelphia.

It is a pleasure to be able to note the advancement that is being made in the cultivation of the chrysanthemum. Every year's display since the first exhibition was held in this city—some eight years ago—has been better than the last. Yet we will hear occasionally, when some particularly fine specimen plants or flowers are shown, that the limit has been reached. But so long as onward and upward are the watchwords, progress must be the result. Not only were the exhibits individually better as a rule, but collectively the displays were more effective. Horticultural Hall never presented so beautiful an appearance as it did last evening when its doors were thrown open to the public. The decorations were more elaborate than had ever been attempted before, and they were in exceeding good taste. The committee which had that department in charge, of which Mr. H. C. Gieger of the Floral Exchange was the most active member, deserve great credit.

On entering the hall the best plants, those competing for the highest premiums, met the eye. They occupied the center of the hall. On each side were tables of ferns, palms and other choice decorative plants, and large palms and dracaenas were on pedestals here and there which were an attractive feature, relieving the flatness which usually prevails in chrysanthemum shows if some such efforts are not made.

There were two plants of *Phenocichorium sechellarum* occupying prominent positions, one came from the veteran Wm. Joyce, gardener for Miss Baldwin, the other from Alexander Young, gardener to Postmaster General Wanamaker. An exceedingly large plant of *Latania borbonica* was also noticed, which came from "Wootton," the country home of Mr. Geo. W. Childs. It must have passed at least twelve feet in diameter. Mr. J. M. Hughes, the superintendent, also exhibited a collection of decorative plants.

Beneath the balcony the smaller collections and seedling chrysanthemums were arranged. The seedlings, as a matter of course, attracted a great deal of attention.

Henry H. Surman, gardener for E. W. Clark, Esq., Germantown, had a very distinct variety on exhibition which has been named "Mrs. Louis Childs Madeira." It is the most double variety I have ever seen, and in form almost as round as a ball. When fully developed it will no doubt be quite so, it is bright yellow in color, and although it is said to be a seedling from the Japanese it partakes more of the character of the Chinese. The same exhibitor had also one which was as bright as Cullingfordii, but it was quite distinct in form, the floret petals

being tubular at the base and yellow in color, so that the contrast in coloring was very effective. He had one that was labelled "Shenandoah" similar in color to Pedro Diaz, a variety seldom seen in this part of the country at the present time.

Mr. Thomas H. Spaulding also exhibited some seedlings of decided merit. His John Firth is a very effective variety, silvery pink in color and quite large. Another variety, Mrs. D. D. L. Farson, is a darker shade of pink and whorled in form.

Robert Craig had several seedlings which promise to rival many of the old favorites. One was christened Col. W. B. Smith at the florists' supper. It is bronzy yellow in color and the floret petals are long and drooping.

J. Brydon, Yarmouthport, Mass., had a large yellow seedling named J. Brydon, Jr., broad floret petals inclined to incurve.

Fred R. Sykes, gardener to Mrs. Harry Ingersoll, had a dark pink inclined to purple, named Mrs. Robert C. Ogden. E. A. Wood, West Newton, a pure white Chinese, very double, called Annie M. Weybrecht, and the one that attracted general attention was John Thorpe's the George W. Childs, a beautiful crimson, broad floret petals, very large and showy. Hugh Graham's son had the Frank Tompson, a large pure white, this we believe has been bought by Hill & Co., Richmond, Ind. Many others changed hands during the exhibition, but they have not been made public as yet.

The new carnation American Flag was very much admired; it is the most showy striped carnation in cultivation, a sport from Portland. Lizzie McGowan among Mr. H. E. Chitty's collection of carnations promises to be a popular and profitable variety, in color it is pure white. Edward Swayne, Kennett Square, had a delicate pink sort which is likely to prove valuable, being in that class of pink carnations that is so much called for nowadays.

The first premium for the Grand Prize for the best 12 chrysanthemums, 12 varieties, grown in pots, was awarded to James Verner, gardener to A. J. Drexel, Esq., Runnymede, Del. Co. The sorts were as follows: Miss Mary Wheeler, 6 feet 4 inches across; Grandiflorum, 5 feet 10 inches across; Robt. Crawford, 6 feet 5 inches across; Mrs. A. Blanc, 7 feet across; Robert Bottomly, 6 feet 2 inches across; Cullingfordii 6 feet across; Mrs. Winthrop Sargent, 6 feet across; Puritan, 6 feet 4 inches across; L. B. Bird, 6 feet across; Mrs. Irving Clark, 6 feet across; Frank Wilcox, 6 feet 4 inches across.

These plants were pronounced by experts to be the finest ever seen in this country.

Second premium was awarded to John Shaw, gardener to Col. G. G. Green, Woodbury, N. J. This is Mr. Shaw's

first appearance for three years. His plants were also extra fine examples of skilled cultivation, the foliage was of a fine rich dark green and furnished down to the pots. His twelve varieties were as follows: Mrs. Wm. Bowen, Puritan, Robt. Crawford, Mrs. Langtry, Mary Wheeler, 6 feet 4 inches, Juno, Mrs. E. W. Clark, Grandiflorum, Cullingfordii, John Colquhoun, Wm. H. Lincoln and Twilight.

Third went to George L. Fowler, gardener to Joel J. Bailey, Esq., Synnyside, Ind. Co. The varieties follow: Robert Bottomly, Mary Wheeler, Mrs. Frank Tompison, Bride, President Harrison, Gold, L. Canning, Mrs. Irving Clark, Lillian B. Bird, Mrs. Isaac C. Price, Puritan and Grandiflorum.

The cut flowers were more in number and better in quality than usual. The H. E. Widener which was sent out last year by Hill & Co. has wonderfully improved since it took the "Blanc Prize" as a plant in flower last year.

Hugh Graham's Son had some magnificent blooms, but those which came from E. Asmus, West Hoboken, N. J., were larger. The twelve blooms which were shown on long stems in a vase measured in diameter collectively ten feet eleven and a half inches (10 feet 11½ inches). The flowers were measured from outside to outside, taking the diameter of each flower over the crowns from the extremities when placed on a plane surface. Mr. John Thorpe says: "This is unquestionably the most remarkable measurement of any twelve flowers."

Many of the plants from which these flowers were cut carried from 4 to 7 flowers each; the largest flower measured 11½ inches, the smallest 10¼ inches.

Certificates of merit were awarded to Wm. K. Harris for John Lane, one of his seedlings of last year and distributed by Hill & Co. And for Miss Minnie Wanamaker, another of last year's seedlings, raised by Henry B. Sarman and sent out by H. Waterer. The latter shares the honor with H. E. Widener as being the best two varieties sent out last year. Miss Wanamaker is a large, very double, pure white flower and will certainly make a fine exhibition variety.

John Shaw was awarded a silver medal for a seedling named Mrs. G. G. Green. This is a pure white and being a healthy grower it has proven itself a good exhibition sort, as it was awarded the first premium for the best new variety—plant in bloom.

John Thorpe also received a silver medal for a seedling, since named Henry M. Stanley, I believe. It is lake crimson in color, with silvery reflex.

A collection of seedlings came from I. Forstermann, Newtown, L. I., N. Y., conspicuous among which were Julius Roehrs and Annie May. The latter is a beautiful yellow with dark bronzy center, this it has passed into the hands of Peter Henderson & Co.

Thomas Monahan had some good varieties with which he took premiums, as a glance at the list below will show. Robt. Carey also exhibited half a dozen seedling plants in bloom.

A collection of seedlings was received from H. Tong, manager for W. L. Scott, Esq., Massachusetts Garden and Greenhouses, Erie, Pa., but unfortunately they did not arrive in good condition. The W. L. Scott, Massachusetts, Thora Strong and Mathilde Townsend are promising and seem worthy of a further trial.

A. H. Fewkes, Tewkesbury, Mass., sent Waban, a good shade of pink similar to Robt. Crawford when at its best. Bea-

con, an improved Mrs. Langtry, creamy white in color, it is said to remain longer in perfection than the Langtry. Tremont, chrome yellow, is more than promising. Mrs. W. Baker is a yellow with orange center, quite pretty.

From Mr. Henry A. Gane, West Newton, Mass., an enthusiastic amateur who although over 80 years of age attends to the wants of his pets daily and delights in the healthful exercise, came a few fine seedlings. One is called Gane's Wheeler, a very much improved Mrs. Charles Wheeler, being larger and more decided in color. Needles we are told makes an excellent pot plant, it belongs to the class of narrow twisted floret petals. Another may be described as a white President Hyde. No. 200 is a twisted variety, creamy white, held over for further trial. Nyack is a large purple incurved variety.

I hope to refer to the Philadelphia-raised varieties in a future number of the AM. FLORIST, and to some others that have been unavoidably omitted from this report.

In addition to palms, ferns and other decorative plants there were fine examples of vegetables from Gebhardt Huster and J. M. Hughes, and foreign grapes added to the interest of the exhibition. Below will be found a list of premiums as awarded by the standing committee on awards on Monday evening.

The cut roses were superior to what are usually seen here, especially those from E. Asmus, among which were Mme. Hoste, Mme. Cusin, Perle and Watteville.

The following premiums were awarded:

GROWERS' LIST.

First to H. E. Chitty, Paterson, N. J. for collection of cut carnations; second to J. Bergman, Flatbush, L. I., for American Flag. Third—To J. McGowan, Orange, N. J., for New White, Lizzie McGowan.

Collection of 12 Perle des Jardins—First to E. Asmus; second to Evans & Battles.

12 Niphotos—First to Joseph Hancock; second to Charles S. Price.

12 The Bride—First to John Burton; second to Charles S. Price.

12 W. Francis Bennett—To C. F. Evans.

12 Papa Gontier—First to C. F. Evans; second to Coles & Whitley.

12 Sunset—First to C. F. Evans; second to Ed Lonsdale.

12 Catherine Mermet—First to John Burton; second to Charles S. Price.

12 any other variety—First to Charles S. Price for Madame Hoste; second to E. Asmus for Madame de Watteville.

6 American Beauty—First to John Burton; second to Edwin Lonsdale.

12 Madame Cusin—First to John Burton; second to E. Asmus.

10 Meteor—To C. F. Evans.

A special premium was awarded to Julius Roehrs for a new hybrid perpetual rose.

FLORISTS' LIST.

Collection of Cut Carnations—To Pennock Brothers.

12 Perle des Jardins—First to Heron & Nisbet; second to Evans & Battles.

12 Niphotos—First to Evans & Battles; second to Pennock Bros.

12 W. Francis Bennett—First to Pennock Bros.; second to Evans & Battles.

12 Sunset—First to Evans & Battles; second to Pennock Bros.

12 Catherine Mermet—To Pennock Bros.

12 any other variety—First to Pennock Bros. for Souvenir de Wootton; second to Heron & Nisbet for Duchess of Albany.

6 American Beauty—To Pennock Bros.

12 La France—First to Evans & Battles; second to Heron & Nisbet.

12 Madame Cusin—First to Pennock Bros.; second to Evans & Battles.

OPEN TO ALL.

Collection of Orchids—To C. F. Evans.

FOREIGN GRAPES.

Best six bunches, six varieties—To John H. Bull. Best three bunches, three varieties—First to John H. Bull; second to Thomas C. Hogue. Best two bunches, Black Hamburg—To Thomas C. Hogue. Best two bunches, Muscat—To John H. Bull. Best two bunches of any other variety—First to John H. Bull; second to Thomas C. Hogue. Best one bunch of specimen variety—First to John H. Bull; second to Thomas C. Hogue.

A special premium of \$25 was given to J. Kift & Son for a flower picture, apparently called "The Rivals." One-half of the picture was constructed of roses and the other half of chrysanthemums.

The judges of the chrysanthemums were: John Thorpe, John N. May and James Dean. They had a very difficult and thankless task to perform, but so far as I could learn the awards gave general satisfaction. They commenced at 9 o'clock a. m., and it was about 10 p. m. before they had completed their onerous duty.

The following premiums were awarded: Special mention was given to E. D. Sturtevant, Bordentown, N. J., for specimen flowers of *Aristolochia grandiflora*.

CUT FLOWERS—CHRYSANTHEMUMS.

Open to all—Collection of cut sprays, in vases, one of a kind—First to H. G. Standen, second to Coles & Whitley. Twelve naturally grown sprays, 12 varieties—First to Coles & Whitley; second to E. Metcalf, third to John McCleary.

Fifty blooms, one of a kind—First to William Tricker, second to F. R. Sykes, third to Joseph Hancock. Fifty blooms, 12 varieties—First to William Tricker, second to F. R. Sykes, third to H. G. Standen. 100 blooms, one of a kind—First to William Tricker, second to Joseph Hancock, third to John McCleary. 25 blooms, one of a kind—First to F. R. Sykes, second to Wm. Tricker, third to H. Graham's Son, fourth to Joseph Hancock.

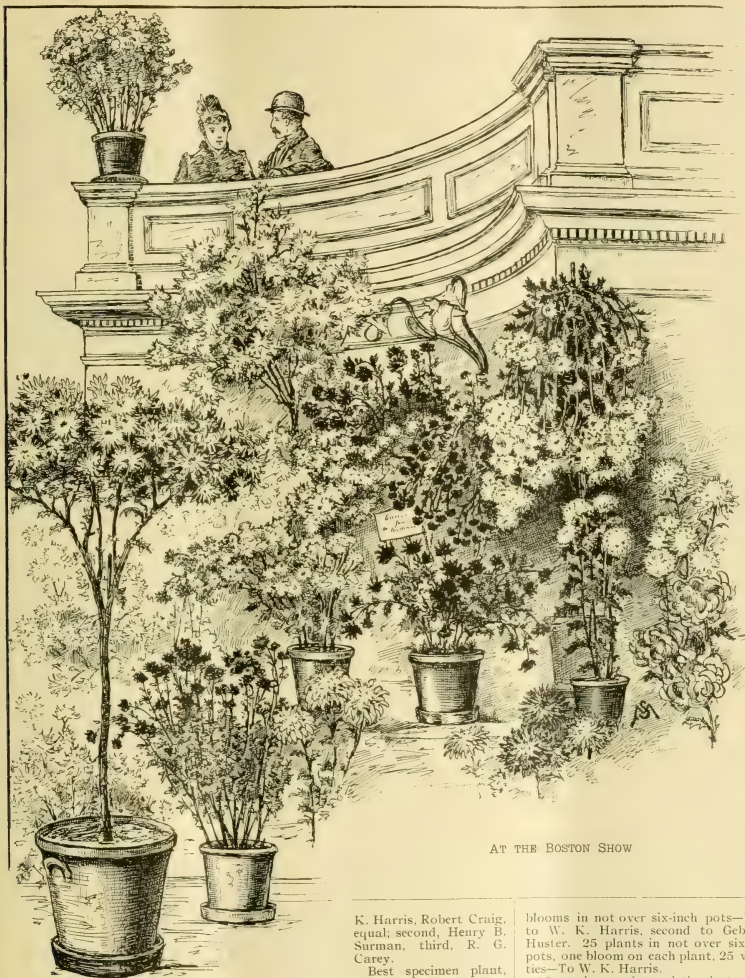
Best vase of yellow—First to Hugh Graham's Son, second to E. Asmus, third to F. R. Sykes. Best vase of white, one variety—First to E. Asmus, second to Hugh Graham's Son. Best vase of pink—To Hugh Graham's Son. Best vase of any other color—To Hugh Graham's Son. Vase of cut blooms—First to Coles & Whitley, second to F. R. Sykes.

NURSERYMEN AND FLORISTS' LIST.

Six pompons, six varieties—First to W. K. Harris, second to H. G. Standen, third to J. W. Colflesh. Specimen plant, white—First to W. K. Harris, second to J. W. Colflesh, third to Coles & Whitley. Specimen plant, any other color—First to W. K. Harris, second to Coles & Whitley, third to J. W. Colflesh. Three specimen plants, three different colors—First to W. K. Harris, second to D. Y. Danenhower, third to Coles & Whitley.

AMATEURS' LIST.

Collection of four different colors—First to James Verner, gardener to A. J. Drexel, second to John Shaw; third to Charles W. Trotter. Specimen plant, white—First to James Verner; second to George L. Fowler, gardener to Joel J. Bailey. Specimen plant, yellow—First to John Shaw; second to Patrick Conlon, gardener for Percival Roberts, Jr.; third to John McCleary, gardener for William Weightman.



AT THE BOSTON SHOW

Specimen plant, any other color—First to James Verner, second to John Shaw, third to Patrick Conlon. Best seedling plant—First to John McCleary, second to Henry B. Surman.

OPEN TO ALL.

Collection of 12 plants, 12 varieties—First to James Verner, second to John Shaw, third to George L. Fowler. Best collection of six new varieties not before exhibited at any show of the Pennsylvania Horticultural Society—First to W.

to John Shaw, second to W. K. Harris, third to Charles W. Trotter. Best specimen plant, new—First to John Shaw, second to W. K. Harris, third to Charles W. Trotter.

6 Standards, stems not less than three feet and not more than five feet high, six varieties—First to John McCleary, second to Patrick Conlon. Specimen standard—First to P. Conlon, second to Coles & Whitely.

25 plants, 25 varieties, any number of

K. Harris, Robert Craig, equal; second, Henry B. Surman, third, R. G. Carey.

Best specimen plant, same conditions—First

blooms in not over six-inch pots—First to W. K. Harris, second to Gebhard Huster. 25 plants in not over six-inch pots, one bloom on each plant, 25 varieties—To W. K. Harris.

12 specimens, six varieties, in ten-inch pots—To J. W. Colflesh. 6 specimens, 6 varieties—First to W. K. Harris, second to Gebhard Huster.

The Sailer Prize, for the best pink seedling—To W. K. Harris.

Wootton Prize, offered by Mrs. George W. Childs, for 3 varieties, 3 different colors—First to John Shaw, second to James Verner.

Pembroke Prize, offered by Mrs. Chas. Wheeler, for four varieties, Japanese—To James Verner.

Record Prize, offered by William M. Singler, for six naturally grown plants—To Gebhard Huster.

Sunnyside Prize, offered by Mrs. Joel J. Bailly, four white, any variety—To John Shaw.

Kunymede Prize, offered by Mrs. A. J. Drexel, for three plants, yellow, any variety—First to James Verner, second to H. G. Standen.

Clothier Prize, offered by Isaac H. Clothier, for best three plants, three varieties, introduced to commerce during 1890—To W. K. Harris.

Wentworth Prize, offered by Dr. Edward Williams, for four plants, one of a kind—First to James Verner, second to John Shaw.

Blanc Prize, offered by A. Blanc, for best seedling never before shown—To Chas. W. Trotter.

Hart Prize, offered by Mrs. H. C. Hart, for best six plants to be grown out of doors—To E. A. Schneider.

Wohlruh Prize, offered by Charles Dissell, for best plant of Mrs. Charles Dissell—To Wm. K. Harris.

Sugar Loaf Prize, offered by Charles W. Trotter, for best plant of President Harrison—To James Verner.

Burpee Prize, for best plant of Mrs. A. C. Burpee and six blooms of same variety—To W. K. Harris.

The Whilldin Pottery Prize, offered by the Whilldin Pottery Company for best seedling plant never before shown—First to Thomas Monahan.

DESIGNS OF CUT FLOWERS.

Plateau of Chrysanthemums—First to Pennock Bros., second to John Mertz, third to Hugh Graham's Son. Flower picture, "The Rivals"—To J. Kift & Son. Dinner Table Decorations—First to Pennock Bros., second to Hugh Graham's Son. Vase of 50 Cut Blooms—First to Coles & Whitley, second to Fred R. Sykes. Schaffer Prize, offered by Miss Elizabeth Schaffer for 25 varieties cut blooms, any variety—To Joseph Hancock. Luzon Prize, offered by Hon. Edwin H. Fittler for 60 blooms, 5 varieties, 12 of each kind, long stems—First to Hugh Graham's Son, second to H. G. Standen.

OPEN TO ALL.

25 Ornamental foliage plants—First to Thomas Long, gardener to A. J. Drexel; second to William Joyce, gardener to Mrs. Baldwin. 15 Decorative plants—To William Joyce.

Specimen plant, any variety—To Alexander Young, gardener to John Wanamaker. Specimen Croton—First to Thos. Long; second to Thomas Wain, gardener to Clarence Clark.

25 Palms—To Thomas Long. Specimen Palm—First to William Joyce, second to Alexander Young. 25 Ferns—To Robert Wark. Collection of lycopodiums and selaginellas—To William Joyce. Marantas—To William Joyce. Specimen Maranta—First to Robert Wark, second to William Joyce. 6 Dracaenas—To Thos. Long. Specimen Dracaena—First to Alexander Young, second to William Joyce.

MEDALS AND CERTIFICATES.

The silver medals were awarded for seedling chrysanthemums to John Shaw for the Mrs. G. G. Green. To J. Brydon for the J. Brydon, Jr. To Fred R. Sykes for the Mrs. Robert C. Ogden. To Henry Surman for No. 178. To John Thorpe for the Geo. W. Childs and the Henry M. Stanley. To Thomas Spaulding for the John Firth. To E. A. Wood, West Newton, Mass., for the Anna M. Weybrecht. Certificates of merit were given to J. Brydon for the Chandos. To Thos. Spaulding for the Frances A. Spaulding. To

I. Forsterman for the Annie May and the Julius Roehrs. To W. K. Harris for the John Lanc. To Robert Craig for Nos. 306 and 307.

Special premiums for foliage plants were awarded as follows: To John M. Hughes, gardener to Mr. George W. Childs, for foliage plants. For a table of foliage plants and ferns—To Charles D. Ball. For the same—To Henry A. Dreer.

Special mentions were made to H. Tong, gardener to W. L. Scott, for a collection of seedling chrysanthemums. To Edwin Lonsdale for a number of seedling carnations. To John Gardiner & Co. and Henry A. Dreer for displays of bulbs. To Whilldin & Co. for a display of standard flower pots. To W. K. Harris for a plant stand.

A beautiful display of orchids in flower was made by the Evans' Rowlandville Nurseries. The arrangement was in good taste and called forth much praise.

The new rose, Waban, from E. M. Wood & Co., Boston, attracted much attention. It is a sport from Catherine Mermet, with which variety it is identical except in color, which is darker. It is to be hoped that it will forever do away with pale-colored Mermets, when it becomes generally in cultivation.

THE CHRYSANTHEMUM SUPPER.

The annual chrysanthemum supper took place on Tuesday evening in the lower hall, which, by the by, was well filled with various classes of chrysanthemums as an overflow exhibition. There were a number of visitors present, including the President of the S. A. F., Mr. M. H. Norton; Secretary Wm. J. Stewart; H. L. Foster, President of the Boston Gardeners' and Florists' Club; Ex-President, P. C. Calder; Alex. Burns, President, New York Florists' Club; E. A. Wood, David Allan, Frank Becker and T. Rowland, of Boston; C. W. Hoitt, Nashua, N. H.; James Brydon, Yarmouthport, Mass.; James A. Penman, Charles Weathered and P. O'Mara, New York; Edgar Sanders, Chicago, and many others whose names I cannot at this time recall. I may have a few "Exhibition Echos" for a future number.

EDWIN LONSDALE.

Boston.

The annual chrysanthemum show of the Massachusetts Horticultural Society opened on Tuesday, November 10, continuing for four days. The weather for the first two days was anything but encouraging. The opening day was marked by the first snow fall of the season, which quickly developed into a cold, uncomfortable rain. Notwithstanding these unfavorable conditions the attendance was very good, and during the last two days the halls were densely crowded with visitors, particularly in the vicinity of the tables where the specially large blooms were displayed.

The lower hall was devoted mainly to cut flowers and the upper to plants. The stage in the upper hall was occupied by a very fine display of palms and decorative plants with a quantity of cut chrysanthemum blooms in the foreground, from W. E. Doyle, and that in the lower hall was filled by Galvin Bros. with a magnificent display of long-stemmed chrysanthemums in vases, also backed by a fine bank of foliage plants.

The leading prize to be competed for in the cut-flower department was that known as the "Bradlee Plate," offered for the best 50 blooms. Another Bradlee premium was also offered for fifty blooms, but divided into 30 Japanese, 10 Chinese and 10 Anemones. All the blooms shown

in competition for these prizes were grand. The former was won by S. J. Coleman, and the latter by J. H. White.

In Mr. Coleman's collection the most noticeable specimens were Etoile de Lyon, Robert Bottomly, Lillian B. Bird, L. Cammings, Mrs. Irving Clark and Advance. In Mr. White's set the best were Jeanne d'Arc, Mons. Lemoine, and a beautiful unnamed white seedling. In Mr. Wm. Edgar's collection were superb blooms of Mrs. Irving Clark, W. H. Lincoln, Bride, Kioto, White Venus, and Princess Beatrice. In A. H. Fewkes's collection in the same class, one of the handsomest flowers was Waban, a variety which received the prize as second best seedling last year, and was awarded a certificate of merit at Philadelphia this year.

First prize for 12 Japanese was awarded to J. H. White, second to E. A. Wood. In Mr. White's set the best blooms were Gold and Mrs. Frank Thompson. Mr. Wood's best specimen was Elegans, an 1889 seedling of Mr. H. A. Gane's which has never been shown before. Mr. Wood also received first for six Japanese, and for twelve Chinese. Specially noticeable in Mr. Wood's collection were Harry Widener, Shasta, Ada Spaulding, President Arthur, Carrie Denny, and Anna M. Weybrecht. The latter is the seedling Chinese which was awarded a silver medal at Philadelphia this season. Mr. A. T. Lombard took second for twelve Chinese, with a good even set.

First on six Chinese was awarded to J. H. White. The varieties shown were M. Lemoine, J. Deleaux, Virgine, Jardins des Plantes, Petro Diaz and White Venus. Second in this class was awarded to the Bussey Institute. The two best specimens in this set were Lady Slade and Empress of India.

For general display of cut blooms, all classes, filling fifty bottles, the first premium was awarded to Mrs. F. B. Hayes. The arrangement of the colors in this display was particularly good.

Much of the interest, especially among the growers, centered in the seedlings. Of these there was an unusual number.

Many were, of course, but more or less perfect reproductions of existing varieties, but there was a fair sprinkling of decidedly new and meritorious kinds. The Society's silver medal for the best seedling was awarded to A. H. Fewkes for "Beacon," which may be best described as an improved Langtry, being much fuller than that variety, and in color a creamy white.

The seedling receiving second prize was shown by S. J. Coleman. It is a very large flower of the Wheeler type, but differing from the Wheeler in the disposition of the outer petals, which extend out flat instead of incurving. It has been named "P. Welch."

Third prize on seedlings was awarded to J. H. White for "Mrs. J. H. White," a very large full white flower finely striped and shaded with delicate violet pink. Quite a number of seedlings were shown by A. Brandt, among them being three or four good ones.

Other interesting seedlings were five from Walter Hunnewell, including one handsome dark bronze incurved, two from T. H. Spaulding, one of which, "D. D. L. Farson," was awarded a certificate of merit, and an immense full flower of the Wheeler type, having broad petals and the center well covered, named "Nyack," from H. A. Gane. This latter was awarded the Appleton medal. In Mr. Gane's set was also a very handsome pink variety, unnamed.

The exhibit on the stage, by Galvin



AT THE BOSTON SHOW.

Bros., was the most notable one in the hall. Here were twenty immense vases of unequalled blooms, each vase holding from fifteen to twenty of a variety, all on long stems with rich heavy foliage. This display was an exhibition in itself, and its equal has never been staged in this country. It is to be regretted that the exhibitors should have made the grave mistake of labelling incorrectly two of the varieties shown, viz: L. Canning and Mrs. Fottler, which were placarded as Mrs. Thos. Mack and Mrs. Gilbert E. Thornton respectively. The flower committee's action in removing the misleading names will receive the hearty approval of all chrysanthemum lovers. The grower of this collection, Mr. S. J. Coleman, was awarded a silver medal for superior culti-

vation, and the medal was well merited. The varieties represented included Mrs. H. Cannel, Mrs. C. H. Wheeler, Lilian B. Bird, W. H. Lincoln, Ada Spaulding, L. Canning, Mrs. Frank Thompson, Mrs. Fottler, Llewellyn, Violet Rose, Neesima, Domination, Mrs. Alpheus Hardy, and W. W. Coles.

Geo. M. Anderson made quite a display of long stemmed flowers in vases, as did also Mrs. F. B. Hayes. Some very fine specimens of Louis Boelmer were staged by Peter Henderson & Co. The whole exhibition of cut flowers, individually and collectively, was far in advance of any seen heretofore in Boston. It exceeded the expectations of all, and is believed by the Boston growers to be the best ever given in America.

The plant department was not quite so satisfactory. There has been but little advance in the quality of the plants grown here for exhibition for some years,

and the interest in them seems to lag. Doubtless this is owing in a measure to the demands made on the growers' time and attention by the present craze for enormous blooms and novel varieties, and also to the comparatively small amounts offered as premiums for plants, for there is no denying that the patience, time and skill necessary to grow good specimen plants, together with the heavy expense of transportation, are away out of proportion to the possible results.

As a rule the plants shown here were to be commended for their graceful appearance, their abundant foliage, and the artistic grouping. There was one specimen, however, which was peerless. It was a magnificent plant of Mrs. Alpheus Hardy, five feet high, and about five feet through, very symmetrical and splendidly furnished with perfect blooms. This was grown by T. D. Hatfield, and he received a silver medal for superior culture.

Walter Hunnewell received first prize for twenty plants. One of these, "Mar-

vel," was a most beautiful specimen of this charming variety. Second prize in this class was awarded to N. T. Kidder. Both of these exhibits deserve commendation for the care with which the staking had been done, the stakes being kept well below the flowers, and nicely hidden by the foliage. The plants in W. H. Elliott's collection were all tiny little dwarf-growing specimens, not over two feet high, and particularly desirable for retail trade. Dr. Wakeott won first prize for specimen pompon with a well proportioned plant of an unnamed seedling. The collection shown by Mrs. F. B. Hayes included some very shapely plants, and the arrangement of the colors was excellent.

In addition to the chrysanthemum exhibits there were five cases of roses shown by Norton Bros. and E. M. Wood & Co. The latter exhibitor showed a vase of the new red *Mermet* "Waban," and to this was awarded a silver medal.

A seedling *calanthe* from Richard Gardner was highly commended, as was also an unusually well flowered plant of *Stanhopea Wardii* from E. A. Butler. The *calanthe* received a silver medal.

A very creditable collection of seedling carnations grown by L. Wight was shown by Galvin Bros. Among the best were Diana, white, Helen Galvin and Fanchon, both closely resembling Grace Wilder, Hesper, yellow, and Bettina, dark red. Besides these there were 18 unnamed varieties, all promising.

A certificate was awarded to carnation "Lizzie McGowan," shown by John McGowan, and honorable mention to "Louise Porsch," from the same grower. L. Wight's "Helen Galvin" also received honorable mention. G. Bernhardt showed a vase of striped carnations "American Flag." WM. J. STEWART.

Indianapolis.

The fourth show of the State Florists' of Indiana was auspiciously opened by Mayor Sullivan of Indianapolis, who talked entertainingly for a few minutes and bid us welcome to the city. M. A. Hunt, president of the society, responded very fittingly for the florists.

The artistic embellishment of the hall was on a scale never before attempted and our worthy secretary, Wm. Bertermann, scores quite a triumph over former years; for to him belongs much of the credit for the work in this line. A brief description might not be amiss. A large canopy of vari-colored silken bunting formed the central piece, from which strands of holly and Florida moss were pendent to the sides of the hall. The balconies and sides of the hall were tastefully trimmed; the background of the covering, white muslin edged with old gold shading at the bottom and for the top line of heavy wreathing of lycopodium, Spanish moss and holly, at intervals bright Japanese fans and parti-colored banners were tastefully draped and hung. The stately emblem of the Republic and flags of other nations with thousands of yards of wreathing tastefully displayed together with the banking of large masses of palms, ficus and other decorative plants made a fit setting for the Queen of Autumn.

The decorations were unusually fine last year thought Mr. Thorpe and our eastern visitors, but they are quite distinct by the present effort in this line.

Chrysanthemum plants were not so numerous as on former years, the growers preferring to concentrate their efforts to the production of fine cut blooms, and

in this feature a grand success was scored. The quantity as well as the quality of the flowers was a gratifying surprise.

In the race for best 25 varieties, 6 blooms of a kind, Mr. Fred Dörner was first with splendid flowers of Emily Dörner, John T. Emlen, Mrs. Wm. Bowen, Mrs. W. S. Sargeant, L. B. Bird, L. Canine, Violet Rose, Mrs. Burpee, Mary Wheeler, W. H. Lincoln, G. F. Moeman, Mrs. Fottler, Henry Cannell, Puritan, Excellent, Mrs. Carnegie, fine, H. E. Widener, Mrs. Langtry, George Pratt, Mrs. Morton, Sunnyside, Marvel and Mrs. I. C. Price. M. A. Hunt was second with excellent flowers of Kioto, Mrs. Fottler, George Maclure, Lucrece, Marvel, L. B. Bird, Magnet, W. H. Lincoln, W. L. Coles, Mrs. Burpee. Henry E. Riemann was third with blooms only a point or so below the two above him. He staged fine examples of Mrs. Morton, Alpheus Hardy, I. C. Price, Mary Wheeler, Coronet, Minnie Wanamaker, J. T. Emlen, H. E. Widener and others.

In the entry for 100 cut blooms, three of a kind, Henry Riemann was first with a fine lot of flowers. This collection was specially noteworthy on account of the size and finish of Violet Rose, which was 8 inches across and 4½ deep. Mrs. S. M. Thomas, quite as broad and much the finest flowers of this sort ever seen at Indianapolis; Walter Coles and Mrs. Levi P. Morton were of the finest, not quite so large as the four mentioned, but of exquisite form and finish were H. E. Widener, J. T. Emlen, Minnie Wanamaker, Ada Spaulding and E. G. Hill.

Best 5 yellows, Riemann 1st, Bertermann Bros. 2nd; best 5 white, 5 bronze, 5 pink, 5 lavender and 5 specimen standard, Riemann 1st in all these classes, Bertermann 2nd.

Best 12 plants in 6-inch pots, 6 blooms to a plant, Bertermann 1st, Riemann 2nd. These were nicely done and represented the popular sorts to decided advantage.

The rose display was generally conceded to be superior to that of last year, which was counted a grand exhibit. Hunt was first with *Mermet*, Gontier, A. Albany, Bride, Perle, Hose and Niphotos; Brown & Canfield, Springfield, Ill., were first on *La France*, Bennetts and Duchess of Albany. Other fine exhibits were by Oakwood Rose Gardens, Oil City, Pa., who staged, not for competition, excellent clusters of *Am. Beauty*, *Bride*, *Albany*, *Wootton*, *Mermet*, *Perle*, *Niphotos* and *Bennet*.

Fifteen cut blooms of a new hybrid perpetual rose, nearly as large and of similar color as *American Beauty*, were shown by Julius Roehrer, of New York. It is probably the earliest of all the foregoing hybrids.

Waban, the "Red *Mermet*," shown by Mr. John N. May, of New Jersey, while a little off in color owing to long confinement, satisfied those who examined it that under favorable conditions it would be as distinct from its parent in coloring as *Albany* is from *La France*.

Hill & Co. were first with a large collection of cut carnations. Among the varieties of note were *Buttercup*, Mrs. Fisher, Fred Dörner, H. E. Chitty, Hoosier, Mrs. Harrison, Indiana and Tecumseh. These latter six are the new seedlings raised by Mr. Dörner, of Lafayette, Ind., and which will be heard from later.

A splendid collection comprising *Tidal Wave*, L. L. Lamborn, *Lizzie McGowan*, Grace Wilder and *Livier Spray* were exhibited by Mr. H. E. Chitty, of Paterson, New Jersey. A fine white seedling carnation named *Ohio* was exhibited by E. J. Paddock, of Cleveland, Ohio.

Begonias were nicely shown by Mrs. Charles Riemann, who had a collection of 100 pots in great variety. Among the finer varieties may be mentioned *mauveata aurea*, Louis Erdody, *Olbia*, *gigantia rosea*, *argentea guttata*, *President Bonnelle*, *Comte Ferd de Lessops*, *Gl. de Seaux*, *Ingramii*, *metallica* and others.

A fine collection of orchids was furnished the society by Siebrecht & Wadley, who sent a fine lot of fancy *caladium* leaves beautifully colored for garnishing the orchids. It might be mentioned that the two harmonized nicely and were very effective.

The great feature of the show was the contest in the seedling classes. The premiums offered tended to bring together the most extensive exhibit of new chrysanthemums ever shown at one time in America. The contestants for the \$100 premium were John Thorpe with five entries, Fred Dörner with six entries, Thos. Spaulding with five entries, Hill & Co. with six entries; and Nathan Smith & Son with three entries.

It was for four blooms of any one seedling not disseminated. Mr. Dörner came out victorious, with the variety *Mistletoe*.

Mistletoe is of the Count de Germiny type, but differing greatly in color. It is of a deep silver color, finely incurving, and a most novel and unique flower both in shape, form and color.

The contest for the prize of \$100 for best six varieties resulted in Hill & Co. receiving the award for the following sorts: *Sugar Loaf*, a large, bold, handsome bronze yellow flower of fine build and finish.

Robert George, a canary-colored yellow. Very bright and effective. Flowers eight inches in diameter.

Willis Rudd, a crimson Japanese sort with whorled petals. Very large and quite distinct with broad petals.

R. Maitre, rich silver pink. Long silken petals. Very fine in texture. Of good size.

Gallia, deep, dark pink with a lighter shading. Large, compact balls of flowers six inches in diameter. Good stiff stems. Flowers full to the center.

Superba, rich, lovely pink, with yellow center. A full, incurving variety forming round, medium-sized flowers.

Certificates of merit were awarded to Hill & Co. for *Flora Hill*, a large, incurving, pure white variety of perfect form and finish, center full; does not show among whites; what Widener is among yellows. Not having requisite number this could not be entered for first prize.

Frank Thomson, a strong, growing, large, bold flower of splendid form and texture. Silver pink, shading to pure white. Certificate of merit.

To Siebrecht & Wadley for Mrs. A. Rogers, a magnificent golden yellow ranking with *Lincoln* and *Widener*. The pure, brilliant yellow, together with its fine form, puts this in the front rank. Certificate of merit.

To John Hartje, Indianapolis, certificate for *Alert*, a large, bold flower, intermediate between *Moseman* and C. H. Wheel.

T. H. Spaulding, Orange, N. J., Mrs. Farson. This has been described before in the columns of the *FLORIST*, and is deserving of all that has been said of it. Certificate of merit.

John C. Firth, an incurving ball of pink, in color a lighter pink than *Ada Spaulding*.

Lily Bates, an improvement over Waterer's "Reward" of last year, but in the same line of color. Certificate of merit.

Charles Henderson, a large, full, bronze colored yellow of fine, bold form. Certificate of merit.

Thorpe's new ones each received certificates. They were:

E. A. Wood, a magnificent fine full double flower, in the Mrs. Wheeler type. A fine advance in this line and a flower of unusual promise.

Wootton, a fine, bold, full flower of an exquisite tint of white, will be magnificent for cutting.

Anna T. Sprague. This showed up much the finest of Mr. Thorpe's new ones and was a formidable rival for first honors. It is a flower that keeps well, and is a pleasing shade of pink with a pearl like gloss. A good sort.

From Fred Dörner. Lafayette Ind.: Mermaid, a soft mellow pink with deeper shading on the outer edge; a fine incurving globular flower. Very bold and effective. Certificated.

Innocence, a chaste and beautiful white; the white being of a purity not approached in other white varieties. Incurved and of fair size and form. Certificated.

Eveline Stein. In the way of, but a great improvement on Bride; delicate white, with petals like the variety called Elksborn. Certificated.

Eda Prass. A fine, bold, recurring flower of great substance and depth; white delicately shaded blush; a pleasing flower of great promise. Certificated.

Emma Dörner. A fine deep violet pink, in the way of Violet Rose when finely done, but of a much deeper and purer color. Large ball shaped flowers of splendid substance. Certificated.

Mattie Bruce. Silvery pink in color, of medium size. Certificate.

Anna Dörner. A full, fine, bold flower with outer petals striped and shaded deep carmine. Center a rich cream white. Certificate of merit.

It might be mentioned that Mr. Dörner's above six made a close race for best six in the \$100 prize.

Thos. Spaulding won the silver cup with the variety named Miss Mattie Stewart, a large yellow flower, of fair size and good form.

Three seedlings (not named) from Hill & Co., were given honorable mention. No. 1, a straw yellow, shaded red; No. 2, in the way of Carnegie, but with broader petals; No. 3, a fluffy or tufted flower with rich cream center. These will be given another year's trial before dissemination.

There were perhaps fifty other fairly good seedlings exhibited. Many of them would have been counted sterling novelties a few years back, but they will have to drop out in the onward march.

NOTES.

Louis Boehmer was shown in fine form by Peter Henderson & Co., and attracted universal attention.

"Oeta," exhibited by Nathan Smith & Co. of Adrian, Mich., Flora McDonald, sent out last year by this firm, and Yarusza, are all promising varieties of the Chinese type and worthy of trial.

Mr. Thorpe's seedling Achievement, a seedling of Mrs. A. Hardy, arrived in bad condition, but it is thought to be a step forward in this particular type.

Unusual interest was taken in the awards on seedlings by the florists present, and the note book and pencil were in almost constant use.

The show every way was a most gratifying success, and we doubt if there is a city in the Union that responds more liberally to the support of a chrysanthemum show than do the people of Indianapolis.

The Florist Club that succeeds in enlisting the people and causing them to attend and support flower shows must have as their ally and friend the newspapers of the city where the show is held. The members of the Society of Indiana Florists are debtors in an unusual degree to the press of the city of Indianapolis for their hearty support and earnest good will as evinced by the many columns of news pertaining to the show, without which it could not have succeeded. Thanks are due the *News*, *Journal*, *Sentinel* and other papers for courtesies shown.

The society here are few in numbers as compared to other localities, and the burden falls heavily on a few of the members. The work should have the earnest, hearty co-operation of all, instead of opposition and hostile criticism from some in our ranks.

Mr. John Lane acted as judge, and gave universal satisfaction. E. G. H.

Baltimore.

This is the last day of the chrysanthemum show of the Florists' Club, and the unanimous opinion of exhibitors and visitors is that, by far, it surpasses any previous show ever held in the city in the brilliant display made by the hall as a whole, in the number of exhibitors, in the closeness of the contest for premiums, and in the exceedingly high culture shown by every collection staged. It is the first exhibition held by the Florists' Club, that of one year ago and all previous ones having been held by the Maryland Horticultural Society, an association composed principally of wealthy amateurs, and as it is the first, the gentlemen who have had the affair in charge deserve, and have received, the highest praise for so brilliant a success that in the language of a visitor, "It is better than that which I saw in London."

The attendance was all that the most sanguine member of the club had dared to prophesy, the number of visitors on Thursday being 2,200, among whom were Mrs. President Harrison and Mayor Davidson and family, with all the leading society people of the city. Mrs. Harrison took the fraternity quite by surprise and had paid for herself and company and had entered the hall, in fact, started on a tour of observation, before being recognized; after that she was escorted by the president of the club and two of the principal exhibitors, who called her delighted attention to the best things on the floor, and were in turn delighted at her expressions of surprise and gratification, as some giant chrysanthemum or beautiful orchid blossom was presented to her for inspection.

The whole of Monday was employed by members of the club in transforming the immense hall of the Oratorio Building into a bower of evergreen branches and trees, with a network of festoons reaching from far overhead to the top of the galleries and all along the front and bottom of the gallery railing. Even the vestibule was lined with palms, ferns and evergreens. The scene from the entrance gallery with the electric lights burning at night was very fine, the massing of palms here and there in great groups between the masses of color which represented the chrysanthemums in a bird's eye view, being particularly good and pleasing, as the crowded condition of this part of the building testified at any hour of the evening.

On entering the hall the first exhibit on the left was the prize winning group of 10 Japanese, containing Mrs. Langtry,

Carroll Elliott, Excellent, Beauty of Yeldo, Mons. Boyer, Harry Wagner, Jno. Laing, Puritan, E. Molyneux and Violet Rose in most remarkably well grown specimens, averaging at least four feet in height and diameter. The only improvement possible in the plants composing this group, if a suggestion from a non-grower of the plant be permitted, would be to disbud a little more freely; 200 blooms being carried at a considerable sacrifice in size, and some of the plants had that many by actual count.

Next to this lot was the first premium 10 Chinese, owned by the same grower, Mr. Jno. Donn, and right here it is hoped another suggestion will be permitted, to the members of the club this time, it is that plants be grouped by entry class, and not by ownership, for where competition is as close as it was at this show the present method renders the work of the judges extremely difficult and gives greater opportunity for complaint if the award is not in accordance with every one's ideas. The 10 Chinese, Snowball, Joan d'Arc, Mrs. N. Davis, Ada Spaulding, Cullingfordii, Boule de Nègre, Alaska, Tragedie, Brazen Shield and Virginalis, were as well grown as the Japanese, which is giving them high praise.

On the opposite side of the entrance was the orchid exhibit of Messrs. Brackenridge & Co. In this class there was no competition, the firm having offered a special premium for the class declined to enter for competition, and there was no other entry.

Next to them came the exhibit of Mr. Wm. Fraser who got first on 6 Japanese, Mrs. A. Hardy, Mrs. Langtry, L. Canning, Mrs. C. H. Wheeler, Puritan, Mrs. Isaac C. Price. These did not carry such a number of blooms, but L. Canning averaged 6 inches in diameter, and Mrs. Langtry 8 inches. The plants were splendidly grown and carried foliage to the very soil in the pots. This may be said of the next lot which took first for 24 distinct varieties by the same grower, with equal truth, for all were in the very best condition. Among these were particularly fine Mrs. M. Bonny, E. W. Clark, Mrs. C. H. Wheeler, W. W. Howell, Sunnyside, G. B. Wilson, Mrs. Alpheus Hardy, Majenta, W. W. Coles, Mrs. Robt. Bottomly, Little Tycoon, Moonlight, Mabel Douglas, E. W. Clark, Sunnyside, Veddo, Diana, Cullingfordii, and a remarkably well preserved specimen of Gloriosum at this late date.

Further on was the anemone flowered class, in which the first premium was taken by Mr. Donn with a grand plant of Model of Perfection, and three seedlings of his own Maude Lee, a pure white five inches in diameter with incurved petals, Marion Kerr, petals rich majenta with light yellow back, and Susie McFarland, a large pink. Then the best specimen of any kind, a class which was placed in one large group, and which in the humble opinion of "yours truly" tripped up the judges badly, for they awarded first to a plant of Mrs. Alpheus Hardy, while a superb plant of Mrs. Wm. Bowen which presented one mass 4 feet across of huge flowers got second; to be sure it might have been staked out a great deal wider and it might have been disbudded to some extent with advantage, but it was a beauty and attracted the wondering admiration of every amateur at the show as it was.

The number of Maryland grown seedlings exhibited was a great surprise, no less than 24 varieties, all of good form, were staged. The first prize was awarded to Mr. E. A. Seidewitz for a fine incurved

flower, amaranth with silver reflex, called My Maryland. The same gentleman exhibited Adele, white anemone; Immortality, white; Ancient City, delicate pink; Lord Baltimore, large incurved terra cotta with silver reflex; also a set called the Press set: Sun, canary; Herald, flesh pink; American, lilac rose; World, delicate buff; News, shell pink; Correspondence, orange buff; Journal, yellow, striped red; all showing Japanese blood.

There were very creditable displays of carnations, begonias, coleus and cacti, one seedling carnation shown by Mr. Hy. Bauer being four inches in diameter.

Vegetables were only represented by one collection, a small lot of big things in the way of beets, radish, etc.; and of fruits the show could boast but one entry, a bunch of Japanese persimmons.

But the cut flower and immortal work was grand, not only as to size, though one design of immortelles, a cross of Cape flowers, with a purple immortelle anchor chained to it, was at least seven feet in length, but with regard to taste and originality the exhibits were immeasurably superior to any group of similar character ever shown in this city. A very beautiful design was a picture on an easel, the frame three feet square being formed of Source d'Or chrysanthemums, and on wire gauze stretched on it was worked up a vase of Tokio filled with sprays of rare varieties. Other designs of merit were a table design by Halliday Bros., which took first, a fisherman's basket of Wootton roses by Campbell & Bankert, and an anchor of Perles and La France with violet flukes. Many of merit we are unable for want of space to mention specially.

The judges were Messrs. Wm. K. Smith, C. F. Hale and Wm. Clark, who came over with a delegation of the Washington Club, and made the awards in a manner that gave great satisfaction, and if they had not had to practice foot racing up and down the hall and across to get at different entries in the same classes we might have hoped to see them in the same capacity next year. They got up a good appetite by dint of long continued and violent exercise however, and after the awards were made accompanied the floor committee to a neighboring hotel, where ample opportunity was given to display their powers of disposing of exhibits of oysters and cases of liquid nourishment, as well as indulging in the pleasant interchange of complimentary remarks which such diet provokes.

As a final to the whole let me give the question passed around at that jolly banquet, "What will Seidewitz's next seedling be?"

First prizes were awarded to John Donn for 10 Japanese, 6 ditto, 10 Chinese, 6 ditto, specimen ditto, 4 anemone, 6 ditto, 12 specimens in 12 distinct classes and cut sprays; to Henry Bauer for specimen Japanese, specimen Mrs. A. Hardy, 6 carnations, specimen carnation, 12 foliage begonias and 6 ditto; to Wm. Fraser for 24 specimens in 24 distinct varieties; to A. Seidewitz for specimen Maryland grown seedling, 12 specimen ferns and original floral design; to Hugo Walther for 12 geraniums; to M. A. Hantseke for 12 specimen carnations in 6 varieties; to John Cook for 12 palms, dracaenas, 6 ferns, display cut roses and new roses; to John Berl for 12 begonias and display of vegetables; to C. T. Bucher for specimen palm, corsage bouquet and 15 ornamental plants; to Chas. Hamilton for 12 coleus; to C. Hess for 30 ornamental plants; to C. M. Wagner for 50 cut blooms chrysanthemums; to Samuel Feats

& Sons 12 ditto; to John Wiedey for funeral design; to Halliday Bros. for dinner table decoration, bridal bouquet and basket; special to Campbell & Bankert for basket.

MACK.

Montreal.

The second annual chrysanthemum show of the Montreal Gardeners' and Florists' Club opened Tuesday of last week under very favorable circumstances; the weather has been as fine as could be expected. The plants were rather better grown than last year, more foliage and less stalks.

The plant winning the special prize was a magnificent specimen of Golden Rod about four feet high, one single shoot with a head about three feet six through and a mass of perfect flowers all standing erect without the aid of a single wire or stake. There were some gigantic specimens of Gloriosum, Source d'Or and Duchess of Connaught, the tallest being eight feet in a ten-inch pot. Several plants were over four and one half feet through and from five to six feet high.

One plant of L. B. Bird about six feet high, had six blooms, all over eight inches across, one of which measured ten inches. Altogether there was about 500 chrysanthemum plants in the hall. There were also several tables of miscellaneous plants.

The cut blooms of chrysanthemums certainly surpassed anything ever exhibited in this city, and I think would compare favorably with the best grown anywhere on the continent. Mr. James Bland's dozen blooms, which carried off the first prize as well as the special prize offered by Messrs. Pitcher & Manda, were of the kind that is hard to beat. The varieties and dimensions were as follows: Spiralis, 8 inches; T. C. Price, 8 inches across, 3 deep; M. L. Fabre, 5x2 inches; Elaine, 5x2½ inches; Gloriosum, 8x4 inches; Ada Spaulding, 6x5 inches; Count de Germany, 8 inches; Mrs. J. Wright, 9 inches; Stantead Surprise, 9 inches; M. de York, 5 inches; Ethel, 5x3 inches; M. C. Audiguier, 8 inches across.

The same grower's six Japanese were: Gloriosum, measuring 10 inches across; Gladiator, 9 inches; Mrs. Ben Harrison, 8x2 inches; M. C. Audiguier, 8 inches; Mrs. J. Wright, 8½ inches; Count de Germany, 8 inches. The same gentleman won the special prize for the best bloom in the show with a bloom of Gloriosum measuring eleven inches across. The six

incurved from the same were Princess of Teck, 3 inches; Lord Wolsley, 5 inches; Ada Spaulding, 6 inches; T. C. Price, 8 inches; Count de Germany, 7 inches; Mrs. A. Hardy, 6 inches. His six reflexed were Annie Salter, Elaine, Gaillardia, Spiralis, Mons. Boucharlat, M. L. Fabre, Mr. Bland exhibited a bloom of his new Ostich Plum which was greatly admired. A very fine set of fifty varieties from Short Hills, N. J., were very much admired; among them we found the following really fine ones: Mrs. De Witt Smith, Mrs. Frank Thompson, L. Cunningham, Etiole de Lyon, Mrs. F. Clinton, Mr. H. Cannell, Grandiflora, H. E. Widener, E. G. Hill, Thunberg, Alaska, Miss May Wheeler, Klotz, Sacher, Jas. R. Pitcher, Cythere, Cortez, Mrs. Medley.

Mr. James Hockley, gardener to J. Molson, showed a few blooms of Sunflower, which was generally conceded to be the best yellow in the room.

Mrs. J. Wright was generally considered to be about the best white. Jessica is also thought a good deal of as a white.

Wilshire Bros. showed some magnificent blooms. They also had a large exhibit

of plants. Florist Thos. Ware also had a large display of plants, all well grown.

First prizes were awarded to J. Bland for twelve distinct varieties, bank of chrysanthemums, on space 10x4 feet, twelve blooms, six varieties incurved, six reflexed, six Japanese, three varieties of large flowering white, three ditto yellow, three ditto pink, and largest and best bloom; to J. Kirkwood for six plants, three new varieties, three Japanese and best plant in hall; to J. Eddy for bank of chrysanthemums on space six by four feet; to W. J. Horseman for three incurved; to J. Hockley for three large flowering and six sprays of pompons; to B. T. Baan for three reflexed, best standard and specimen pompon; to Thomas Ware for specimen large flowering white and six double geraniums; to Geo. Trussell for specimen large flowering yellow chrysanthemum and three double Primula sinensis; to P. McKenna & Son for hand bouquet of chrysanthemums, table bouquet of same, six white carnations, six pink ditto, collection bouvardias, double ditto, single ditto, and for six of each of the following roses: Mermet, Bride, Perle, Niphetos, American Beauty and any other variety; to A. Pinoteau for three flowering begonias, three rex ditto and collection of carnations, to J. Walsby for six ferns, six table plants other than ferns and stove and greenhouse plants.

JAMES MCKENNA.

Toronto.

The Gardeners' and Florists' Club's first attempt at a chrysanthemum show in this city has proved an unqualified success, in consequence of which members of the said club felt jubilant and swear by all the gods of Japan and China to be better still next year. Our American friends John N. May, John Thorpe, Pitcher & Manda, P. Henderson & Co., and others gave us a "leg up" by sending over some of the best flowers sent that we can say with the poet (no need to quote name) "In spite of the McKinley bill we love you still the same."

In the 25 cut chrysanthemum blooms class Mr. Geo. Vair, gardener to Sir D. S. Macpherson, came in ahead with some magnificent blooms; E. G. Browne, florist, Hamilton, a close second, and Hy. Dale, florist, Brampton, third. For 12 blooms the same men came in in the same order. In the 6, Hy. Dale was first with blooms nearly as good as the American florists sent us, E. G. Browne second and Geo. Reeves, gardener at Reservoir Park, third. Single blooms, Geo. Reeves first with a magnificent W. W. Coles; Messrs. Spears & Musson second with a Mrs. A. Hardy, and Hy. Dale third with Mrs. J. Bullock. In the 25 plants Mr. Vair was first, W. J. Laing, florist, a close second, and John Cottrell, florist, third. In the Japanese W. J. Laing was first with six beauties, A. McPherson, gardener to Col. Sweeney, second, and Richard Marshall third. Mr. Wm. Houston was also a large exhibitor in the different classes.

The roses must be mentioned as being especially good, certainly the best ever exhibited in Toronto, and don't want to say where else as we are very modest. The honors were divided between Mr. John H. Dunlop, Toronto; Hy. Dale, Brampton, and Spears & Musson, Deer Park. The exhibit of John N. May, Summit, N. J., was well worthy of special mention. The Waban, the red Mermet and the new Hybrid Perpetual were each awarded a certificate of merit, and besides these there was a fine exhibit of roses and chrysanthemums.

Peter Henderson & Co. were also

awarded a certificate of merit for their exhibit of Louis Boehmer, the pink "Ostrich Plume," which was greatly admired. Messrs. Pitcher & Manda very kindly sent a grand exhibit of new varieties of chrysanthemums. And last but not least that G. O. M. John Thorpe sent some specimens of the very finest, which could not be otherwise coming from him. We wish he could have seen what we have accomplished in so short a time, as the second day of the show fell on the first anniversary of the club.

In designs of chrysanthemums for dinner table Mr. R. Mearns, florist, Parkdale, was first with a very elegant arrangement, Mr. Geo. Vair second, and Messrs. Tidy & Son third. The best design for funeral was a magnificent cross done by Tidy & Son, second by W. J. Laing.

Mantel decoration (a new thing in Toronto) came out strong. W. J. Laing had a corner of the hall partitioned off, carpeted and furnished all to himself, and it was quite a feature of the show. Messrs. Manton Bros. also were very successful in their treatment of this class of decoration.

It would take up too much of your space to go through the whole list, every thing was good, though of course we don't think there was not room for improvement. Our American friends may expect some good orders for new varieties shortly, judging by the way in which names were eagerly scanned by the trade and public in general.

Several members, notably Mr. John Chambers, our president, and vice-president of the S. A. F., loaned large collections of stove and greenhouse plants for decorating the hall (the same hall by the bye in which we intend the S. A. F. to hold their meetings next year), the general effect of which was quite beyond anything hitherto seen here. Lastly, but not by any means least, the financial part of the show was a success also.

The judge of cut flowers was Mr. C. Scrim, Ottawa, for plants Mr. S. Aylett, Hamilton, and Mr. A. Hogg, Toronto.

Springfield, Mass.

The chrysanthemum show of the Hampden County Horticultural Society last week was the fifth exhibition of plants and flowers here this year, and was by far the largest and best, the City Hall being fairly alive with color. The platform was decorated with palms and native evergreen trees, and a band gave a concert each evening. The attendance was large.

The exhibit itself was not as large in plants as last year, but there were more cut blooms, and all of better quality. There were about three hundred varieties exhibited.

The following were the professionals exhibiting: Miller Bros., Springfield, Mass., roses, carnations, fine "Grace Wilders," grown by H. Grant, violets, adiantums, hyacinths, and the pink ostrich plume chrysanthemum "Louis Boehmer," for Peter Henderson & Co., Gale Floral Co., Springfield, Mass., cut roses grown by C. F. Fairfield, who won two first and one second prize, chrysanthemums, palms, carnations, jardiniere filled with palms and ferns, and a decorated dinner table, winning two third prizes. A. Mielzel, Springfield, Mass., cut roses and chrysanthemums and a large variety of the latter in pots winning two specials, eight firsts, two second and two third prizes. A. B. Howard, Bel-

chertown, Mass., pansies, and won first prize. E. H. Howland, Holyoke, Mass., chrysanthemums, roses and carnations, winning one first and two second prizes. Temple & Beard, Cambridge, Mass., evergreen shrubs and trees. C. L. Burr, Springfield, Mass., pansies, winning one first and one second prize. Galvin Bro's., Boston, Mass., a fine show of cut blooms of chrysanthemums, grown by S. J. Coleman, gardener for C. J. Power, South Framingham, Mass., winning four special prizes. J. G. Bebus, New York City, cut blooms of pansies, carnations and roses, winning one first, one second and one third prize. Fevkes & Sons, Newton Highlands, Mass., chrysanthemums. T. H. Spaulding, Orange, N. J., four cuttings, Mrs. Spaulding, Miss Dutton, and two without a name.

Certificates of merit were awarded to A. Mielzel for decoration of platform; Temple & Beard for collection of evergreens and hardy shrubs; Gale Floral Co., collection of palms and decorated dinner table; Peter Henderson & Co., chrysanthemum "Louis Boehmer;" Edwin Fevkes, cut chrysanthemums; Gale Floral Co., cut violets and carnations; Miller Bros., cut roses and carnations; T. H. Spaulding, chrysanthemum seedlings.

The majority of the prizes, and all the certificates of merit were taken by professionals.

ALFRED B. COPELAND.

Minneapolis.

The chrysanthemum exhibition held by the Society of Minnesota Florists Nov. 12 to 14 inclusive was a big boom for the chrysanthemums and also for the florists. The display was far better than was expected, considering the short time the florists had to prepare for it, and the future of the chrysanthemum in the Northwest is brighter than ever. The attendance exceeded all expectations, and much is due the public and newspapers for their willingness to help the florists in their effort to make it a success. The New York Life Insurance Company donated the use of two large rooms in their new building free of all expense, and a better location could not have been had for money.

The plants, although not to be considered exhibition plants, were fine, sturdy plants, with large, well developed flowers. Mr. R. J. Mendenhall took first prize on best display and best twenty varieties, the Smith Floral Company being second; for best twelve varieties, plants, Wessling & Hartman received first prize and E. Noel took for best six; display of standards, Wm. Desmond first and G. Malmquist second.

For cut flowers August S. Swanson received first for best display and R. J. Mendenhall first on most artistic arrangement of cut chrysanthemums. For best twenty-five varieties R. J. Mendenhall received first and Smith Floral Company second. Best eight varieties, K. J. Mendenhall first for blooms of Source d'Or, E. W. Clarke, W. W. Coles, Wm. H. Lincoln, L. Canning, J. R. Pitcher, Pietro Diaz and Mrs. Pratt; Smith Floral Company second for blooms of Mrs. Fottler, George Bullock, Mrs. H. Cannell, Mrs. A. Hardy, Mrs. F. Thompson, Glorioso, Dr. McKey and Lillian B. Bird. For roses the Smith Floral Company received first and R. J. Mendenhall second.

Peter Henderson & Co. exhibited six fine blooms of the pink Ostrich plume Louis Boehmer, and as a curiosity it proved to be a great attraction, although many were disappointed in the color, being rather an off color.

Fine displays of orchids, palms, crotons, and other foliage plants were made in addition to the chrysanthemums, although no premiums were offered, and surely the Society of Minnesota Florists may feel proud of their first effort in arranging chrysanthemum shows.

The Pennsylvania Horticultural Society's rules for judging plants were adopted, and also similar rules for cut flowers and designs, and although it made hard work for the judges there was much less dissatisfaction over the awards made than is usually the case.

G. MGR.

Detroit.

The chrysanthemum show was quite a success. There was a very excellent display, the hall was beautifully decorated and the local press was liberal with its praises.

Premiums were awarded as follows: In plants Holznagle & Noel received first prizes for 15, 6, 6 grown in 6 to 8-inch pots, 6 yellow, 6 pink, 6 white, 6 bronze, 6 standards, pair, single specimen, 3 standards and pair standards; second prize was awarded them for 6, in 5 to 6-inch pots. John Breitmeyer & Sons were awarded first for 6 half standards, 12 in 6 to 8-inch pots, 12 in 5 to 6-inch pots, and 6 in 5 to 6-inch pots; they took seconds for 15, 6 in 6 to 8-inch pots, 6 yellow, 6 pink, 6 white and 6 bronze. The Detroit Floral Co. received second for 6 half standards, 6 standards and 3 standards, and third for 15, 6, 6 grown in 6 to 8-inch pots, 6 yellow, 6 pink, 6 white and 6 bronze. T. C. Bogula was second for 12 in 6 to 8-inch pots, and fourth for 6 yellow, 6 pink, 6 white and 6 bronze. B. Schroeter received third for 6 standards and 3 standards.

In cut flowers J. Breitmeyer & Sons were first for 50 blooms, 12 white, 12 pink, 12 yellow, 12 bronze and 12 assorted, and second for 100 blooms. Holznagle & Noel were first for 100 blooms, second for 12 bronze and third for 50 blooms, 12 pink, 12 yellow and 12 assorted. Nathan Smith & Son, of Adrian, took first for best seedling, second for 50 blooms, 12 pink, 12 yellow and 12 assorted, and third for 100 blooms and 12 bronze. Nathan Smith & Son and Holznagle & Noel were tie for second on 12 white. The Detroit Floral Co. took third for 12 white and fourth for 50 blooms, 12 pink, 12 yellow and 12 assorted. T. C. Bogula received fourth for 12 bronze and fifth for 50 blooms and 12 assorted. The prize for best collection of cut flowers shown by an amateur went to Mr. D. M. Baker, of Adrian.

Chrysanthemums in a Cold Tea Fight at New York.

A fight was engineered by W. S. Allen and Thos. F. Young between John H. Taylor and Ernest Asmus, for the largest six chrysanthemum flowers. Here are the varieties and their diameters: Taylor: Molly Bawn 11½ inches, Mrs. M. J. Thomas 10, Mrs. I. C. Price 9½, Mrs. Frank Tompson 10, Robert Crawford, Jr. 9½, Syringa 11½, total 61½. Asmus: Mrs. Frank Tompson 11½, Mrs. M. J. Thomas 10, Domination 8, Mary Wheeler 8, H. E. Widener 8, Mrs. Irving Clark 7½, total 54½.

The result was that Mr. Taylor won on diametrical measurement, but the general opinion was that Mr. Asmus' flowers were better in build and development. Any how the tea was drank, and some persons are wishing for a renewal of the fight.

J. T.

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Address THE AMERICAN FLORIST CO., Chicago.

WE HAVE received from Secretary Stewart a copy of the printed proceedings of the sixth annual convention of the Society of American Florists held at Boston last August. It is very neatly printed and contains the many valuable essays read at the Boston meeting together with the discussions on same. After this is said, it is unnecessary to add that it is filled with good things. Certainly no live florist can afford to miss the opportunity to become familiar with its contents. Any who are not members of the society should make application for membership now to Secretary Stewart. This will entitle them to a copy of the report as well as to the other benefits conferred by membership in the society.

HOLLY.—Early reports as to its condition this season indicate that while the trees are reasonably well berried in most sections, there is a possibility that some of the berries and leaves may drop before the stock is gathered owing to the very dry season. The best holly—that with notched leaves—has been so much reduced by extensive cutting the past few years that it is getting difficult to secure a large supply in any one section.

COULD THERE be any better evidence of the still increasing popularity of the chrysanthemum than the annual increase in the number of exhibitions held throughout the country. See our reports of exhibitions in this issue.

A FEATURE of the Indianapolis show was the profusion of exceptionally well grown cut flowers of chrysanthemums displayed by Fred Dörner. Another was the 50 collection grown to single flower shown by M. A. Hunt.

The printed report of the Boston convention has been issued and each member of the S. A. F. will probably have received a copy by the time this issue of the FLORIST reaches them.

"A DELIRIUM OF COLOR" is the expression used by a reporter for an eastern daily in describing the chrysanthemum. He adds: "Nature held a full palette when painting the chrysanthemum."

IT WILL hardly be necessary to say that it took quick work to give in this issue the illustrations of the Boston exhibition which appear elsewhere in this number.

WE SUBMIT this issue as evidence that the AMERICAN FLORIST is a live newspaper and up with the times.

WE HAVE in preparation views at the Philadelphia chrysanthemum show. They will appear in next issue.

THIS ISSUE may be safely designated as the chrysanthemum show number.

THE chrysanthemum now reigns from the Atlantic to the Pacific.

SAN FRANCISCO.—At the chrysanthemum show of the State Floral Society prizes were awarded as follows: Gold medal for cut flowers to Mrs. Copeland, amateur; silver medal for same to Wm. Rabcock; silver medal for best general display of chrysanthemums, ferns and violets to Timothy Hopkins; silver medal for best collection of plants in bloom to same; gold medal to John H. Sievers for largest and best collection of plants; silver cup to H. Yoshute for cut flowers.

WILMINGTON, DEL.—Last week's chrysanthemum show very considerably surpassed the exhibition held last year; but there was a serious disappointment in the attendance which was light. All the plants and flowers were from three local florists; Messrs J. L. Brown & Co., L. E. Baylis and Geo. W. Brinton & Son. The premiums were divided among these exhibitors, Messrs Brown & Co. receiving a majority of the first prizes.

PITTSBURG.—Messrs. Alex. Murdoch and Nat. Patterson of this city and Superintendent Wm. Hamilton of the Allegheny Parks and Theo. F. Bechert of Allegheny, took in the Philadelphia chrysanthemum show. They unanimously agree that Thorpe's "blue" and Harris' "tricolor" seedlings were stunners. Many visitors desired to view the "blue" but owing to an unfortunate accident the exhibition plant was non-presentable.

PROVIDENCE, R. I.—The chrysanthemum show of the Rhode Island Hort. Society was very successful. There was a fine display of plants and cut blooms. Exhibits were made by growers from all over the state and several displays of cut blooms of chrysanthemums and other flowers were made by florists in other states. The attendance was excellent.

YORK, Pa.—We have had our first chrysanthemum show. It was not a competitive exhibition and was given by the ladies of one of the local churches, but some very good plants were shown and we feel that we have not been left out of the procession.

SPRINGFIELD, ILL.—H. L. Phelps, the florist, gave an exhibition of chrysanthemums last week in a tent connected with his greenhouses. Many exceedingly well grown plants were shown.

DANVILLE, ILL.—Frank B. Smith gave a very successful exhibition of chrysanthemums last week, showing over 900 plants in 150 varieties, embracing the best new and old sorts.

Boston.

Mrs. F. B. Hayes, who so generously entertained the S. A. F. at Lexington last August is seriously ill.

Some of the orchid growers are criticising the representation of Cattleya Gaskilliana in the last number of the FLORIST which purported to be "life size," asserting that it is not much more than one-half life size.

The delegation from Boston to the Philadelphia Chrysanthemum Exhibition numbered ten. "Never had a better time in my life" is the verdict of all those who have returned up to date.

The supply of chrysanthemums on the street and in the stores show no diminution as yet. The quality is unprecedented and the quantity seems inexhaustible.

The exhibition at Horticultural Hall this week has been a great success in the

matter of attendance. The incandescent lights are kept burning all day long, and the brilliancy of coloring in the chrysanthemums is much enhanced thereby.

One of the best rules governing such exhibitions here is that which requires that the exhibits be renewed when the flowers show signs of fading. All the cut flowers are carefully overhauled every morning and fresh specimens put in place of the wilted ones. Neglect of this requirement involves forfeiture of prizes.

A most beautiful orchid now in bloom at Mr. F. L. Ames' greenhouses is Saccaballium Heathii. It is exceedingly rare and valuable but its greater claim to admiration is its beauty. The long full pendant raceme of pure white flowers is marvelously beautiful. Cattleya Bowringiana is now in full bloom, its abundant purple clusters are very effective. Vanda Amesiana has a tremendous flower spike now developing. A plant of Dendrobium Bromfieldii bearing a dozen spikes of deep purple flowers is one of the rarities shown.

WM. J. STEWART.

Chicago.

In spite of the wretched weather last Saturday there was a fair turnout at the annual dinner of the Florist Club at Kinsley's, and those who were there enjoyed themselves most thoroughly. Reference being made to the Chicago Flower Exchange by one of the speakers quite a spirited discussion was had regarding the practicability of the project and several erroneous ideas regarding the Exchange were corrected by Mr. Reynolds and others. The Horticultural Department of the exposition of 1893 also received attention, Mr. Vangum emphasizing the necessity of the club taking active measures regarding same. Every one present contributed at least a few words and a very sociable good time was had. The floral decorations of the table were very generous, a large quantity of flowers having been donated for the purpose by various growers. Over three hours were pleasantly spent discussing the menu and enjoying the after dinner speeches. Then there was an adjourned session at a neighboring bowling alley, during which some fearful and wonderful scores were made. Among those present were Mr. John Walker, who is now in the city in the interests of Craig & Bro. of Philadelphia, and Mr. Hammersley of Lake Geneva, Wis. The latter has signified his intention of applying for membership in the club.

As Mr. Leslie aptly put it, the purpose of an Exchange is to bring buyer and seller closer together, and anything that does that is a benefit to both.

Mr. J. T. Anthony has been quite seriously ill for the past week, in fact dangerously so at times.

Edgar Sanders returned from the east last Friday. He visited the Philadelphia chrysanthemum show and can't say enough in praise of the magnificently grown plants and flowers seen there.

H. G. Higley of Cedar Rapids, Iowa, passed through the city last Friday, on his way home from Indianapolis, where he had been to attend the mum show there.

Mr. Frederick Mau, the orchid importer of South Orange, N. J., had a sale of orchids at Ellison, Fliersheim & Co.'s auction rooms last Thursday. About 500 plants were sold at very high prices, nearly all going to local florists. Mr. Mau was present and expressed himself as satisfied with the results of the sale.

New York.

Never before has such an abundance of roses been seen here at this time of the year. It is estimated that more than half a million roses were shipped to the city during the week.

Everybody is complaining about poor business. Wall street alarms always have a demoralizing effect on our trade. There have been several state exhibitions of chrysanthemums during the week. Thorley, Scallen, Stump and Weed each having special displays.

Weir, Wiperman and Phillips, of Brooklyn, also made a splendid showing.

It seems to be a mania among our florists to have fine delivery wagons, some of them being very beautiful. Scallen may be said to have the most effective, the wagon being of a very pale yellow color, drawn by a superb team of white horses, originally belonging to the "Still Alarm" company.

Pitcher & Manda have announced their intention of holding an exhibition of chrysanthemums in the new Madison Square Garden during Thanksgiving week.

Jos. Fleishman has opened a flower store on Broadway and Thirty-second street, opposite the new Imperial Hotel. William P. Sears, who purchased Alex. McConnell's Sixth avenue store, is doing a splendid business.

Klunder says he will resume business shortly.

Lizzie McGowan carnations will be very popular for boutonnières the coming season.

Roman hyacinths and narcissus are making their appearance and are selling well, owing to the limited supply.

We do not look for much increase in business until colder weather sets in and chrysanthemums are over. J. YOUNG.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By first class florist and rose grower. Good references. Address C. R. Carr American Florist, Chicago.

SITUATION WANTED—As head-gardener in some public park, cemetery or private place. Thoroughly competent to take full charge. Address D. Carr American Florist, Chicago.

SITUATION WANTED—By young man, 25 years of age, to do general greenhouse work, has had some experience, in or near Chicago preferred. A. Carr McCormick Greenhouse, Lake Forest, Ill.

WANTED—Strong young man for general work in seed store—acquainted with the business. Address M. Carr American Florist, Chicago.

FOR SALE—Two Mirrors, size 5½ feet high and 11 feet long, with gold and silver frames. One will cost \$175 each, will sell for \$80 each each. FOREST GLEN FLORAL CO., 327 Lake St., Chicago.

FOR SALE—Handsome solid cherry florist's ice box, size 11 feet high, 5½ feet long, 2½ feet wide, cost \$300 to make; will sell for \$165 each. Great bargain. FOREST GLEN FLORAL CO., 327 Lake Street, Chicago.

FOR SALE—Florist business, thoroughly equipped and stocked. Doing a fine business at home and abroad. In a growing Ohio city. Money for good reasons. A good investment. Four houses. The real estate for sale or lease to purchaser. Price \$50,000. Address E. B. BARNETT, care A. M. Florist, New York City.

FOR SALE—A florist establishment, one greenhouse 75x18, and two 75x10 feet each, heated by hot water (weathered); 25 acres of good land, some wooded and pasture, plenty of fruit, well lit house, barn and other out-buildings; good well and cistern. All buildings new and in good repair. One hour from New York City, and one mile from depot. Price, \$4,800, or will sell the greenhouse property separate for \$2500. Address F. O. BOWEN, Ramsey's, S. J.

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A splendid commercial greenhouse plant, comprising 20 houses in all, 70,000 square feet of glass, well stocked, and 10 acres ground in Chicago, 7½ miles from retail business district. Everything substantial and convenient; good water supply and heating apparatus. Fine residence, employees' houses, barns, ice house and storerooms. The business is well established and has other business that require their entire attention. For further particulars address J. G. Carr Chase, Hamill, Mt., 327 Lake St., Chicago.

Wholesale Markets.

Cut Flowers.

BOSTON, Nov. 15.	
Roses, Bon Silene.....	\$1.00 @ \$1.50
" Gontiers.....	2.00 @ 3.00
" Niphetos.....	3.00 @ 4.00
" Perles, Sunes.....	3.00 @ 5.00
" Mermets, Brides.....	4.00 @ 6.00
" La France, Le Franc.....	5.00 @ 7.00
" Am. Beauty.....	25.00 @ 30.00
Valley.....	1.00 @ 6.00
Carnations.....	75 @ 1.00
Violets.....	1.00 @ 2.00
Chrysanthemums, specimen blooms.....	6.00 @ 15.00
Smilax.....	17 @ 20
Adiantums.....	1.00 @ 1.50

PHILADELPHIA, Nov. 15.	
Roses, Beauties.....	15.00 @ 25.00
" Perles, Niphetos.....	3.00 @ 4.00
" Albany.....	6.00
" La France.....	4.00
" Mermets, Brides.....	5.00
" Terre Guillous, Hostes.....	5.00
" Gontiers.....	2.00 @ 2.50
Valley.....	1.00 @ 8.00
Carnations, long.....	1.00 @ 1.50
Carnations, short.....	15.00 @ 20.00
Adiantums.....	1.00
Violets, single.....	35 @ 50
Violets, double.....	1.00 @ 1.25
Bougard.....	1.00 @ 1.50
Chrysanthemums.....	1.00 @ 2.00

NEW YORK, Nov. 15.	
Roses, Bon Silene.....	\$1.00 @ \$1.50
" Gontiers.....	2.00 @ 3.00
" Niphetos.....	2.00 @ 4.00
" Sou's.....	2.00 @ 3.00
" Perles, Sunes.....	3.00 @ 5.00
" Mermets, Brides.....	3.00 @ 4.00
" La France, Albany.....	4.00 @ 5.00
" Bennetts.....	3.00 @ 5.00
" Hostes.....	3.00 @ 5.00
" Beauties.....	15.00 @ 35.00
Valley.....	6.00 @ 8.00
Smilax.....	15.00 @ 20.00
Carnations, long.....	1.00 @ 1.25
Carnations, long, white.....	1.00 @ 1.50
Adiantums.....	1.00 @ 1.50
Smilax.....	15.00 @ 20.00
Asparagus.....	25.00
Bougard.....	1.50 @ 2.00
Mignonette.....	1.50 @ 2.00
Violets.....	4.00 @ 5.00
Chrysanthemums, fancy.....	15.00 @ 25.00
Asparagus pinnatifid.....	15.00
Common chrysanthemums, per bunch.....	10

CHICAGO, Nov. 17.	
Roses, Perles, Niphetos.....	\$3.00 @ \$4.00
" Gontiers.....	2.00 @ 3.00
" Bon Silenes.....	1.00 @ 2.00
" Perles, Sunes.....	3.00 @ 5.00
" Brides.....	5.00 @ 6.00
" Am. Beauties.....	12 @ 15
" Bennetts, Dukes.....	5.00 @ 6.00
Carnations, short.....	75 @ 100
Carnations, long.....	1.00 @ 2.50
Smilax.....	15.00 @ 20.00
Adiantums.....	1.00 @ 1.50
Violets.....	1.00 @ 1.50
Chrysanthemums.....	1.00 @ 3.00
Bougard, heliotrope.....	1.00

WM. J. STEWART,
Cut Flowers & Florists' Supplies

WHOLESALE

67 BROMFIELD ST., BOSTON, MASS.
Mention American Florist.I. M. McCULLOUGH'S SONS,
Wholesale Commission Dealers in
CUT FLOWERS,

134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES:
Prize Chrysanthemums and Orchids:
CARNATIONS.

	Strong 4-in. Per 100	Strong 5-in. Per 100
Portia.....	\$ 6.00	\$ 9.00
Hinze's White.....	6.00	9.00
Chester Pride.....	6.00	9.00
Wm. Swayne.....	6.00	9.00
Century.....	7.00	10.00
Christmas.....	10.00	15.00
Primula Obconica, strong, 2½-inch.....	4.00	
Geraniums, choice varieties, 3-inch.....	3.50	
Asparagus Tenuissimus, 2½-inch.....	4.00	
Begonias, large stock, all sizes and vars.		

Address N. S. GRIFFITH,
JACKSON CO. INDEPENDENCE, Mo.
(Independence is well located for shipping, being 5 miles east of Kansas City.)

THOS. YOUNG, JR.,
WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,

And the Choicest ROSES for the
fall and winter season.
Mention American Florist.

W. S. ALLEN,

WHOLESALE DEALER IN CUT FLOWERS,

36 EAST 23rd STREET, NEW YORK.

ESTABLISHED 1877.

Price List sent upon application.

W. F. SHERIDAN,

Wholesale and Commission Dealer in

CUT FLOWERS,

No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

JOHN YOUNG,

WHOLESALE FLORIST

56 WEST 30TH STREET,

NEW YORK.

E. H. HUNT,

WHOLESALE FLORIST

79 Lake Street, CHICAGO,

(Successor to Vaughn's Cut Flower Dept.)

All Flowers in Season. Orders promptly shipped.

Store open until 9 P. M. Sundays until 2 P. M.

ALL SUPPLIES. **WIRE WORK A SPECIALTY.**KENNICOTT BROS.
WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

All Cut Flowers in Season. Orders promptly shipped.

Store open until 9 P. M. Sundays until 2 P. M.

ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

NOTICE.

Mr. E. J. Harms has purchased the interest of Mr. O. W. Frese in the business formerly conducted under the firm name of Frese & Gresenz, and the business will continue by L. G. Gresenz and E. J. Harms under the firm name of Gresenz & Harms at the old location, 99 Wash. Ave.

L. G. GRESENZ,
E. J. HARMS.

LaRoche & Stahl,

Florists & Commerce Merchants

—OF—

CUT FLOWERS,

1237 Chestnut Street, PHILADELPHIA.

Consignments Solicited. Special attention paid to shipping.

Mention AMERICAN FLORIST.

CUT FLOWERS.

The choicest Cut Flowers, of our own growing, at lowest market rates, shipped C. O. D. Use A. P. Code when ordering by telegraph. Telephone connections. For prices, etc., address

J. L. DILLON, LOOMSBURG, PA.

FLORISTS' HAIL ASSOCIATION

OF AMERICA,
Insures Greenhouses against damage by hail. For full information, address

JOHN G. ESLER, Secy, Saddle River N. J.

Re Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

THE Philadelphia Press of Nov. 13 says: A syndicate of Englishmen has been for several weeks trying to secure control of all the leading seed warehouses in this country. A number of interviews with the different firms have been had, but as yet nothing definite has been arrived at. There is upward of \$20,000,000 represented in the syndicate, and it is the intention to buy the plants outright, but each firm can take a certain number of shares and retain an interest in administering the affairs of the branch which was once their own. The largest number of seed houses are located in this city and over \$2,000,000 is invested. About five times as much business is done here as in New York. The entire capital invested in the seed business in this country, that is in the principal Eastern cities, is estimated at \$10,000,000. The English syndicate has offered more than this amount to secure control of the business. A prominent seed merchant said yesterday: "The syndicate has been trying for some time to secure control of the seed business, but they have been so long about it that I think the thing will fall through."

WILLIAM HENRY MAULE is a seedsman. William Henry Maule is also a *Practical Farmer*. William Henry Maule ought to step into John Wanamaker's and buy a mantle of charity. Get it extra long and double width. William Henry, and wear it whenever you speak of *The Practical Farmer*. For some men there is an excuse for printing a poor-looking paper, but for Mr. Maule there is none, for he has both brains and money.—*Art In Advertising*.

INDIANAPOLIS.—F. C. Huntington will leave this week for Thomasville, Ga., expecting to remain there several months for his health.

PETER KIEFFER, the well known pomologist, nurseryman and florist, of Roxborough, Philadelphia, died November 7, aged 78 years. He was the originator of the Kieffer pear, for which he received a diploma at the centennial exposition and which has been widely distributed throughout America and Europe.

DANBURY, CONN.—There was a good display at the chrysanthemum show last week. In addition to the exhibits by local growers there were displays by the United States' Nurseries, Peter Henderson & Co., F. H. Pierson and John Thorpe.

HYDRANGEAS.

Fine plants from 5-in. pots, \$12.00 per 100. They may be safely sent by freight. Send enough money to prepay charges.

DOUBLE WHITE PRIMROSES. 2-inch pots, \$8.00 per 100. We will have again next spring small plants of Tuberosa Begonias, separate colors.

BRAUER & RICHTER, McConnellsville O.

FOR SALE.

Marie Louise plants, strong. A few hundred Czar, single blue, at \$2.50 per 100. A few hundred grandiflora, from 10 to 14 inches high, 2 years old, \$10.00 per 100. Cash with orders for the above goods will receive prompt attention, at 10 per cent off.

Also it will sell at cash price in exchange for a large lot of Eranthis Ravene, Eulalia Zehrina and other variegated grasses. Prices on application.

M. TRITSCHLER, Nashville, Tenn.

EASTER TRADE.

FORCING ROSES,

For Delivery December 1 to 10. Heavy Plants, branched, 18 to 36 inches.

Mme. Gabriel Luizet.....	Per 100. \$14.00	Glory de Margottin.....	Per 100. \$16.00
General Jacqueminot.....	12 00	Ulrich Brunner.....	14 00
Magna Charta.....	14 00	Mrs. John Laing.....	13 00

HEAVY PLANTS, BRANCHED, HARDY ROSES, FOR Spring Trade.

Harrison and Persian Yellow.....	Per 100. \$12 00	MOSS ROSES, assorted, mostly	Per 100. \$12 00
Blanch Moreau, latest pure white Moss.....	14 00	perpetual sorts, in large variety.	12 00

Fine Plants HYBRID PERPETUAL ROSES, for Spring Trade.

Orders should be booked now to secure special sorts. Gen'l Jacqueminot, Paul Neyron, Merveille de Lyon, Dr. Andre, P. C. de Rohan, M. Bauman, M. Boisse, C. of Oxford, J. Hopper, Capt. Christy, Coquette des Blancches, Mme. La Charme, and other varieties. Purchaser's selection, per 100, \$14. Our selection, per 100, \$12; per 1000, \$110.

H. P. ROSES, 1 year field grown, 12 to 20 inches, assorted, per 100, \$8.00.

HERMOSA, for present potting, 8 to 15 inches. For 3 and 4-inch pots, per 100, \$5.00; per 1000, \$45 00.

MME. PLANTIER, 15, 20 in., branched, best hardy. For 3 and 4-in. pots, white, per 100, \$8 00.

CLIMBING ROSES.

Strong Plants, 2 to 3 feet. Some varieties will be scarce next Spring. Prairie Queen, B. Belle, Seven Sisters, Pride of Washington, per 100, \$12.00. Orders booked now for Present Delivery, or Spring.

TREE ROSES, 5 to 6 ft. stems, good heads, fine roots, clean and smooth stock. 2 to 3 ft. stems, very cheap. Write for prices.

J. C. VAUGHAN, CHICAGO.

FIVE NEW AMERICAN ROSES

Probably the most interesting Novelties of the coming season, and those that will attract the widest attention of the Trade on both sides of the water, are our

NEW AMERICAN SEEDLING ROSES,

HENRY M. STANLEY,
MRS. JESSIE FREMONT,
MAUD LITTLE,
PEARL RIVERS,
GOLDEN GATE

Five New Teas of Sterling Merit, originated, grown, and tested in this country, and sent out on their merits at reasonable rates. Orders can be booked now, and will be filled in rotation as received—April 1st next. Full descriptions ready Jan. 1st.

Prices, \$1 each; set of 5 for \$5; two of each, 10, for \$9; five of each, 25, for \$28.

ADDRESS THE DINGEE & CONARD CO.,

Rose Growers, West Grove, Pa.

IMPORTED H. P. ROSES,

Worked low on the Manettia stock. Offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS, and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

10,000 General Jacq. Rose Plants, one and two year old.

Extra large two year old, \$20.00 per 100.

" fine one year old, 3 ft. and up, \$15.

" fine one year old, 2 to 3 feet, \$10.

JORDAN FLORAL CO.,

706 Olive Street, ST. LOUIS, MO.

ROSES

FOR IMMEDIATE PLANTING

Duchess of Albany.....	\$12.00
Mme. Hoste.....	7.00
La France.....	5.00
Gentians.....	4.00
Perles.....	4.00
Niphetos.....	4.00
Mermets.....	4.00
Brides.....	4.00
Bon Silenes.....	4.00
Gen'l Jack, 2-in. 40 per 1000; 3-in. 4.00 per 100.	
H. Perpetual, 40 var. 2-in. \$50.00 per 1000, 3-in. \$25.00 per 1000.	

SEND FOR LIST.

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.

ROSES.

Perles, Mermets, Cooks, Brides, & Sout. d'un An, strong plants, 3-in. pots. \$7.00	Per 100 Per 1000
Hybrid Perpetuals, open ground, \$8 & 10.00	
Hardy Climbers, open ground.....	\$8 & 10.00
Teas, from open ground.....	\$4 & 6.00
Amelopsis Vetchii, strong plants.....	8.00
Box Bessie, fine varieties.....	8.00

VERBENAS, strong and healthy.

General Collection, 24-inch pots.....	Per 100 Per 1000
Manettia Collection, 24-inch pots.....	\$3.00 \$25.00
	4.00 25.00

WOOD BROTHERS,

(Successors to J. C. WOOD & BRO.) FISHKILL, N. Y.

ROSES

FOR WINTER BLOOMING.

10,000 healthy Roses from 4-inch pots, consisting of

MERMETS, BRIDES, PERLES,

NIPHETOS and BON SILENES,

at \$10.00 per 100.

Also 5,000 field-grown JACKS, 2 to 3 ft.

\$10.00 per 100.

DAISIES of the finest strain from seed-bed \$3.00 per 1000.

JAMES HORAN, FLORIST, BRIDGEPORT, CONN.

THOMAS YOUNG, JR.,
=WHOLESALE FLORIST,=
20 West 24th Street,
NEW YORK.

**Sole Agent for the Following
well-known Growers:**

ERNEST ASMUS,	-	West Hoboken, N. J.
W. H. DE FOREST,	-	Summit, N. J.
PETER HENDERSON,	-	Jersey City, N. J.
JOHN N. MAY,	-	Summit, N. J.
S. C. NASH,	-	Clifton, N. J.
JOHN REID,	-	Jersey City, "
A. C. TUCKER,	-	Nyack, N. Y.
WEIGAND BROTHERS,		West Hoboken, N. J.

And many others.

ALL THE CHOICEST VARIETIES OF
ROSES, CHRYSANTHEMUMS, ORCHIDS, LILAC,
LILY OF THE VALLEY, TULIPS, ETC., ETC.

— ORIGINAL AND LARGEST GROWERS OF —

LILIAM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

— BULBS NOW READY FOR DELIVERY. —

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 120 in length, a crop of *Lilium Harrisii* in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it is in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his own use. We hear it said occasionally that *Lilium Harrisii* flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as HEADQUARTERS FOR THE BERMUDA EASTER LILY: supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP OF 1890, over

— HALF A MILLION BULBS. —

Be sure you get the genuine *Lilium Harrisii*. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant *L. Longiflorum* in Bermuda, planting it with *Harrisii* to increase their stock rapidly when *Harrisii* was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large losses have resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

A White La France.

The original growers here of American Beauty, Messrs. George and Thomas Field, have on exhibition at the Small's chrysanthemum show a rose, new in these parts, grown by them, which they call the "White La France," and I should say, is destined to become a decided favorite. In habit, form and vigor it seems to be identical with the standard La France, but in color it is a delicate blush at the center, growing lighter and lighter until along the edges it is almost a perfect white. No apple blossom ever displayed more exquisite shading. A vase full of buds gave abundant evidence of its desirable qualities and successful propagation. Washington, D. C.

A WAIL FROM THE WOODS.

That is the title of a beautiful little Catalogue, perhaps the most unique that was ever published, which tells you all about the Woods and

CHRISTMAS GREEN.

It tells you how Ferns, Pines, Smilax, Palms, etc. grow, and what tough times a Woodsman has gathering them. It tells of a fortune in Sheet Moss. It tells why some people'd feed Mistletoe to cows, and what Caldwell, The Woodsman, would hate if he was a girl. It proves that the great Woodsman is really worth \$2,000,000. It tells how to cure a cold, and what "Jim" said when I told him I was going to write a book. J. Horace McFarland, the printer, says it is IMMENSE, and also said that you fellows would stand with open mouths till you took it all in.

DON'T MISS IT.

You can get a copy of the Catalogue and Price List for Season 1890 and '91 by applying to

Wm. J. Stewart, Boston, Mass.
I. G. Carmody & Co., Evansville, Ind.
DeCou & C., St. Paul, Minn.
Joseph Bancroft, Cedar Falls, Iowa.
Harry Chaapel, Williamsport, Pa.
Huntsman Floral Co., Cincinnati, Ohio.

Write to your nearest address for it, and you will buy your Green at the same place, as it is my aim this year to save you both freight and express charges and give you still quicker service. I forgot to say that the book is illustrated with photo-lithographs of the Wild Smilax, Long Needle Pines, Palms, Gray Moss, Ferns, etc., and the great Woodsman, horse, axe, boots and all. It will be sent direct to all my last year's customers November 20th.

N. B.—You need not get mad with J. Horace McFarland for saying that, because "IT IS TRUE, YOU KNOW." DARNED IF IT AIN'T.

Yours truly,

CALDWELL,
THE WOODSMAN,
Evergreen, Ala.

A. BLANC,

ENGRAVER FOR FLORISTS.
PHILADELPHIA, PA.



Electro of this Cut, \$2.00.
LARGEST STOCK OF ELECTROTYPES OF PLANTS
AND FLOWERS FOR FLORISTS' CATALOGUES, ETC.
Complete Catalogue 8c. deducted from first order.
Agency for the sale of Electros of MESSRS. VIL-
MORIN ANDRIEU & CO., (Paris.)

PLANT BED CLOTH.
CHEAP SUBSTITUTE FOR GLASS ON Hot-
beds, Cold Frames, etc. Three grades,
Light, Medium, Heavy.



Used by Florists, Gardeners, etc., invaluable for Tobacco Growers. Protects from frost. Promotes hardy, vigorous growth and keeps beds warm, will not shrink or mildew. For sale by the leading Dry Goods houses, Seedsmen, Florists, etc. Well known and extensively used. For circulars and samples, apply

NATIONAL WATERPROOF FIBRE CO.,
27 South Street, - - NEW YORK.
Agents Wanted.
Mention American Florist.

LONG'S FLORAL PHOTOGRAPHS

—WERE AWARDED—
SPECIAL HONORABLE MENTION
at Boston Convention Exhibit.

Enterprising florists readily appreciate their use as a practical help in their business. They help to better priced orders, and save much time during a rush when it's most valuable to you. The series now reaches eighty-five in number. Each a distinct subject.

ARTISTIC. BEAUTIFUL. PERFECT.
Order of any reliable supply man, or send for descriptive and priced catalogue direct to the publisher.

DAN'L B. LONG, Florist,
BUFFALO, N. Y.



ESTABLISHED 1890
Floral Wire Designs
Manufactured by
N. STEPHENS,
325 East 21st Street, - NEW YORK.

2,000,000
EVERGREEN CUT FERNS

Especially for Florists' use.

\$1.50 per 1,000; 5,000, \$6.25; 10,000, \$10.00.
Discount on large orders. Special attention paid to supplying the trade all winter. Nothing but first-class stock will be shipped.

25,000 YARDS
BOUQUET GREEN WREATHING,

for HOLIDAY SEASON, all wound on a cord with fine wire, and warranted strong enough to hold up in 24 yard lengths without separating (any size made to order). 1,000 yards of the standard sizes constantly shipped at once. Terms Cash, or goods will be sent C. O. D.

3-in. diam. flat or one-sided.....	per yd. \$.04
3-in. diam. round.....	" .05
4-in. diam. round.....	" .06
5-in. diam. round.....	" .10

Discount on large orders.



SPHAGNUM MOSS.

Long, clean fibre, barrel or sack, \$1.00;
Six barrels, \$5.00; Twenty barrels, \$15.00;
One hundred barrels, \$50.00.

This Moss is warranted free from leaves, sticks and rubbish of all kinds.



Christmas Trees

OF ALL SIZES.

Special attention paid to furnishing in car load lots

Smaller sizes, from 3 to 10 ft. American White Spruce, very nice shape and fall.

Larger sizes, from 10 to 25 feet, Balsam Fir.

Write for Prices and Terms.

L. B. BRAGUE,
DEALER IN FLORISTS' SUPPLIES,
HINSDALE, MASS.

CITY STAND DURING THE HOLIDAYS,
47th St and Lexington Ave., New York.

Laurel Festooning.

WREATHS, TREES, FERNERIES, Etc., Etc., for the HOLIDAYS.

HARTFORD & NICHOLS,

Wholesale and Retail Dealers in Moss, Bouquet Green, Cut Ferns, and Festooning of all kinds,
18 Chapman Place, BOSTON, MASS.

**For Wild Smilax,
PALMS AND PALMETTOS,
FOR DECORATIONS.**

Write to

A. C. OELSCHIG,
SAVANNAH, GA.



MUSHROOM SPAWN
GENSIE MILITRAIK
10 lbs 25 lbs 50 lbs 100 lbs
\$1.20 \$2.75 \$5.00 \$9.00
JOHN GARDINER & CO.
PHILADELPHIA, PA.

H. BAYERSDORFER & CO.,

Successors to
M. M. BAYERSDORFER & CO.,

FLORISTS' SUPPLIES,

56 N. 4th St., PHILADELPHIA, PA.

Full line of METAL WREATHS, WHEAT SHEAVES a specialty. Write for price list.

STOCK PLANTS

CHRYSANTHEMUMS!

If you grow or contemplate doing so next season, write for price list of Novelties and Standard varieties.

T. H. SPAULDING,
ORANGE, N. J.

VERBENAS.

20 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$25.
Rooted Cuttings of same, 100 \$1; 1000 \$9.
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In reply to the query of "W. F." on page 160 of the AMERICAN FLORIST for November 6, in regard to ground aphid or lice, I suggest that he try the following method, which has proved very satisfactory to me, and has saved me many aster plants.

Put about a handful of tobacco stems immediately around each plant, just under the bottom leaves. This has the effect of keeping the ants and aphid away from it and is, at the same time, a good fertilizer for the plant. The treatment should be given when the plants are, say three inches high, and the tobacco stems allowed to remain until after the blooming season. So much for a preventive, I know of no cure.

My experience also teaches me that the aster is much less liable to the attacks of ground aphid when clay is freely added to the soil (the soil here being naturally light and porous).

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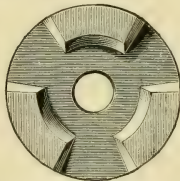
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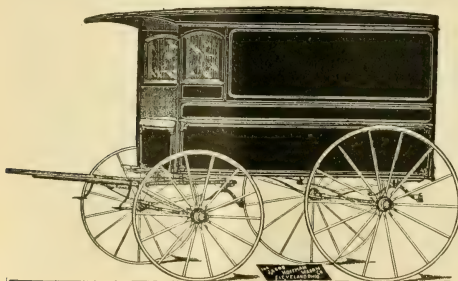
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Hartford, Conn.

The chrysanthemum show given last week by the Hartford Co. Hort. Society was by all odds the finest ever given in this city. The collections of plants were extremely large and the individual plants of excellent quality, and the cut flowers were also unusually good. The new pink hairy root, Louis Bochner, was shown by Peter Henderson & Co. of New York and there were several handsome new varieties from the United States Nurseries. Short Hills, N. J.

First prizes were awarded to B. E. Beemer for best display of twenty named plants in 20 distinct varieties, and for 6 Japanese, 6 Chinese, specimen Japanese, specimen pompon named variety, specimen anemone named variety, 3 standard, 6 specimen blooms grown and exhibited on plant in 6-inch pot, 6 specimen plants in 6-inch pots, specimen single bloom and best seedling plant of 1890; to Christopher Bessold for 3 pompons, specimen Chinese, and 20 cut sprays in 20 distinct named varieties; to John Coombs for 25 cut blooms in 25 named varieties, 10 cut blooms in 10 varieties and for 12 cut roses not less than 6 varieties; to William May for collection of palms and ferns. Certificates of merit were awarded to Geo. W. Atwood for seedling Dandelion and to H. E. Chitty, Paterson, N. J., for seedling carnations. Fitch & Manda, received special mention for exhibit of cut blooms of chrysanthemums. Peter Henderson & Co. for Louis Bochner and B. E. Beemer for special exhibit of mushrooms. Diplomas were awarded to John Dallas of Fairfield for seedlings and to G. W. McCluncheon for dining room decoration; which last was a very taking feature of the exhibition.



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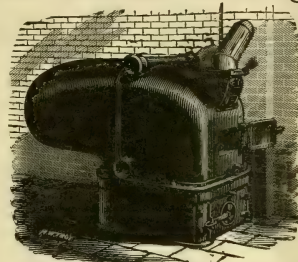


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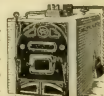
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Vol. VI.

CHICAGO AND NEW YORK, NOVEMBER 27, 1890.

No. 130.

THE AMERICAN FLORIST

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Chrysanthemum Show.

Worcester, Mass.

That the popularity of the chrysanthemum in Worcester is increasing every year was shown at the seventh annual exhibition of the Worcester County Horticultural Society on November 12 and 13. There was a marked improvement in the plants and cut blooms and the attendance was also larger.

The plants were arranged around the hall on terraces, each class by itself; at each end of the hall was a large round stand of cut blooms neatly covered with white cloth, with a center piece of palms, these stands being connected by two long tables, also covered with cut blooms. The only drawback was the lighting, and that was miserable. Why a society with the standing and prominence of the W. C. H. Society will spend the time and money to get up a good exhibition and then spoil it between 5 and 10 p. m. by poor lighting is something I can not understand. A single arc light hung in the center of the hall would have remedied this evil and improved the show immensely; gas light will not bring out the delicate pink and yellow shades.

The exhibit of the State Lunatic Hospital, John Nelson gardener, was especially good and captured nearly all the first premiums. For the best six Chinese, in pots, State Lunatic Hospital took first with six well grown plants, the most conspicuous being Cherub, a good yellow. Joseph Brierly received second, and Geo. A. Lovell third. The Hospital also captured first for the best six Japanese in pots, a splendid pink variety, Clara Harris being the feature of this class; Mrs. C. E. Brooks showed six fine plants and was awarded second, Geo. A. Lovell third.

The pompons in pots were a rather poor lot, pompons not being very popular in this section. State Lunatic Hospital first, George A. Lovell fourth.

The Hospital had a very fine display of pot plants, consisting of 35 beautifully grown plants, W. H. Lincoln, Puritan and E. G. Hill being especially noticeable; Joseph Brierly second and Patrick Head third. First premium was also awarded the Hospital for a magnificent specimen plant of Mrs. Humphrey, a fine white variety. Joseph Brierly received second for a well grown Ada Spaulding and Geo. A. Lovell third; Joseph Brierly received first for best six Japanese in pots, limited to four blooms on a plant, with H. B. Watts second.

The State Lunatic Hospital showed 12 magnificent Japanese blooms, L. B. Bird, Kioto, Mrs. Fottler and Pres. Carnot deserving special mention; Mrs. C. E. Brooks showed a dozen fine flowers and was awarded second with Joseph Brierly

third. For best six Japanese blooms, State Lunatic Hospital first, H. B. Watts second, Mrs. C. E. Brooks third.

The flowers in the Chinese class were very fine, such old varieties as Cullingfordii, Jardin des Plantes and Duchess of Connaught being far ahead of the seedlings of late. In the collection of State Lunatic Hospital which was awarded first premium for best six cut blooms was Ada Spaulding (Query—should Ada Spaulding be shown in this class?) second prize was taken by H. B. Watts with six finely shaped flowers, and third by Mrs. C. E. Brooks. Mrs. C. E. Brooks was awarded first for 24 cut sprays, Chinese and Japanese, H. B. Watts second and Geo. A. Lovell third; the sprays of H. Camell, Mrs. F. Thomson and Crown Prince were very fine.

Two good stands of 24 sprays of pompons were shown by H. B. Watts, who took first, and Geo. A. Lovell second. Geo. A. Lovell showed the largest Japanese bloom, a Lilian B. Bird, and Mrs. C. E. Brooks was second with Mrs. Frank Thomson. The call for vases of one color brought out some very good Cullingfordii which, by the way, seems very hard to beat for a crimson.

Taking everything in consideration the show was a big success. A. H. LANGE.

Germantown, Pa.

Following the example of its older colleague, the Pennsylvania Horticultural Society, the Germantown Society excelled itself this year in its chrysanthemum show. Less than 200 plants were shown, but these completely filled the large hall, and scarcely a plant but showed a higher skill in cultivation than ever before by the Germantown growers.

The chrysanthemums were set on the floor in three large beds running lengthwise with the hall, the sloping floor of which set off the beauties of the autumnal queen of flowers to good advantage. Only the choicest varieties were staged, and these were of the most distinct types.

In addition to the chrysanthemum plants that have been known in commercial circles for some time, there were an unusually large number of seedlings exhibited, several of which show decided merit, and it is believed will be not only deemed worthy of being "sent out," but will hold a permanent place among choice collections. All of these belong to the large-flowered type.

Chrysanthemums trained into standards also were well represented, a line of them extending almost completely across the hall in front of the stage. The stage was set with naturally grown plants and dinner table decorations. The space under the gallery was devoted to cut blooms of chrysanthemums and designs composed of the same flower. The plants were judged and premiums awarded by

IN ORDER to give this paper your fullest support confine your orders so far as possible to those who advertise in its columns.

PLEASE do not forget that we can pay no attention to anonymous communications.

Thomas Cartledge, Walter Coles and J. William Colless.

In the class for nurserymen and florists first premiums were awarded to Woltemate Bros. for 9 plants, not less than 6 varieties, 4 plants, not less than 4 varieties, 2 plants 2 varieties, specimen yellow, white, red and any other color. David Cliffe took the seconds in same classes except in the first named class, in which Thos. Meehan & Son were second.

In the class for private gardeners, M. Clifford took first premiums for 9 plants not less than 6 varieties, 4 plants 4 varieties, specimen yellow and specimen any other color. John Brown received first for specimen white, and Frank Smith first for specimen red.

In the cut flower classes which were open to all, Paul Reinhardt received first premiums for 20 blooms 20 varieties and collection of cut sprays not less than 20 varieties. David Cliffe took first for design of chrysanthemum flowers, John Welsh Young first for collection of cut roses 6 varieties, Matthew McCleary first for collection of seedling chrysanthemums, and Robert Morrison first for specimen seedling and collection seedlings 6 varieties.

In the amateur class Boaz Phillips received first for 3 plants 3 varieties and specimen plant.

Of the special premiums offered, first for 6 plants 6 varieties in not over 12-inch pots, went to M. Sammon, and first for 2 plants 2 varieties to Woltemate Bros. Special mention was given to John Welsh Young for a dinner table decoration chiefly of ferns.

Oshkosh, Wis.

The display at the exhibition given here recently would have been quite creditable to a much larger city. The novel arrangement is worthy of note. The exhibition was held in the Casino club rooms, which consist of a small hall, a billiard room and two parlors. Each room was devoted to distinct classes of exhibits, one parlor for cut blooms and mantel decorations, the other for table decorations and sociability; the latter was comfortably furnished and the ladies served refreshments. The hall of course held the pot plants, and they just comfortably filled it. As one walked through the rooms he found new attractions in each one and probably each exhibit was more carefully inspected by the visitor than where the whole can be viewed at a single glance, though imperfectly, in one large hall.

The display of decorative plants was very good, those shown by E. Haentze, of Fond du Lac, averaged small, but were of the most popular sorts and were in splendid condition. The specimens exhibited by J. Lewis, gardener to Mrs. Edgar Sawyer, were so large and perfect as to remind your correspondent of those seen at Boston last August. Among them were an adiantum fern measuring four feet through, and in perfect condition, crotons five feet high and in perfect form, perises and other ferns in variety standing four to six feet high. The whole made a beautiful bank extending from the floor over the stage almost to the ceiling.

The chrysanthemums were excellent. Although the prizes were awarded to different entries as being first, second and third best, they were all good. In a few instances it required very careful work on the judges to determine their relative standing. Those shown by Mr. Lewis, both plants and cut flowers were very fine, and he may justly rank among the

expert growers of this country. The roses and carnations were very fair. Mr. John Nelson displayed a vase of seedlings.

Of the awards on chrysanthemums Mr. J. Lewis received first prizes for 12 varieties, 6 white, 6 yellow, 50 blooms in 25 varieties, 25 blooms in 12 varieties. Second prize in each of the above classes except the first named, went to John Nelson. Isaac Miles received second for 12 varieties, and third for 50 blooms in 25 varieties, and 25 blooms 12 varieties. Mr. Nelson took third for 12 varieties. Mr. E. Haentze received first on carnations and roses, Mr. Nelson taking the seconds in same classes. Isaac Miles took first on vase bouquet and rex begonias. Mr. Lewis was first in foliage plants, Mr. Haentze taking second. The prize for best specimen palm and fern went to Mr. Lewis. In the amateur class A. Bartlett took first on chrysanthemums and Geo. Reis the same on foliage plants.

C. B. W.

Washington.

The Indian summer of the past week has been favorable to our Autumn Queen and the parks and gardens, the markets and florists' establishments are all aglow with chrysanthemums of every hue and form.

Splendid as was the display at the fine show rooms of J. H. Small & Sons last year, their present exhibit far excels that, both in plants and single specimen clusters. A plant of W. H. Lincoln with some 300 bright canary yellow blooms varying in diameter from 3 to 5 inches covers an area of not less than 13 feet in circumference. A Grandiflorum of somewhat deeper yellow and like like form of flower shows blooms equally as large on a plant of like vigor. Near by stands a superb plant fully as large of "Mrs. M. Bowen," the flower of which while open has incurved leaves of a pale claret on the inside and rich cream color on the outside. Several of the blooms measure 20 inches in circumference. The fantastic shaped "Lilian B. Bird" with its delicate pink hue, and other similar Japanese varieties such as the "Mrs. Irving Clark," pink, shaded, and the "Austrian Flame," tassel leaved, white "Shasta" are here in plants of exceptional size. The incurved "President Harrison" of a deep claret color, many blooms measuring five and more inches in diameter, contrasted well with the beautiful snowball like clusters of the exquisitely formed white "Miss Minnie Wanamaker." The "Levi P. Morton" and "Robert Bottomley" were two more choice white specimen plants displayed, while specimen flowers of the satin sheened rose colored "E. Meredith" and vases of the "Alpheus Hardy," "Spaulding" and many others of exceptional sizes and excellent habit, comprising with the lesser grades not less than sixty varieties on exhibition, constitutes this chrysanthemum show, the best of anything heretofore attempted in this city. Numerous graceful palms and choice ferns are interspersed with admirable taste and the great 20 foot show window displays in its entire width a very sizeable representation of the U. S. Capitol Building, with its wide steps, fine columns and balustrades, its grand dome and Goddess of Liberty made up of flowers and at night illuminated by electric lights even to the lanterns on the porticoes.

Chas. F. Hale has also a fine display of floral arrangements in his window, consisting of an immense shield dome of flowers upon which are fifteen small flags with dates and mottoes representa-

tive of the various periods in our National history, the whole constituting a unique and at the same time an instructive specimen of floral art.

Trade both in plants and in cut flowers has materially revived and dealers everywhere I have looked seem busy and of good cheer.

Z.

Cincinnati.

We were promised a full report of the chrysanthemum show of the Cincinnati Florists' Club by Mr. B. P. Critchell, the same to be mailed in time to appear in last issue, but up to this time nothing has been received. We have, however, secured clippings from Cincinnati daily papers from which we glean the following:

The exhibition very considerably surpassed that of last year, a very large display being made. Among the most attractive features of the show was the display of orchids by John Rose, gardener for F. T. McFadden. The display filled two large tables.

First premiums were awarded to R. Witterstaetter for 12 plants 12 varieties, 5 plants yellow, specimen plant pink, 18 varieties bush plants, specimen plant any color, 6 standards, 20 varieties cut sprays. To T. Beck for 5 plants white, 5 pink, 5 other colors and specimen plant any other color. To John Freis for specimen plant white. To Sunderbruch & Sons for specimen yellow. To B. P. Critchell & Co. for 6 bush plants 6 varieties and 50 ferns in 10 varieties. To Fred Walz for 50 plants not more than two of a kind, specimen standard and seedling plant not before exhibited. To John Rose for 25 varieties cut blooms. To E. G. Hill for 6 cut blooms of varieties not disseminated. To C. L. Mitchell for 20 plants carnations, specimen plant carnation and begonias (4 classes and special premiums). To John Rose for collection of orchids. To J. A. Peterson for 50 palms in 20 varieties.

In the class for roses, cut blooms, first premiums went to T. W. Hardesty for American Beauty, Sunset and Watteville; to C. L. Mitchell for Duchess of Albany, La France and Mme. Hoste; to F. Walz for Marechal Niel, Cornelia Cook, Perle and Niphetos; to John Rose for Mermet, Bride, Bennett and Gontier. The first prize for collection of 30 blooms, not less than 6 varieties, went to T. W. Hardesty.

For carnations, cut blooms, 10 classes each containing 12 blooms of different sorts, first to R. Witterstaetter, second to C. A. Getz.

Syracuse, N. Y.

The Central New York Horticultural Society held their annual chrysanthemum show at Syracuse on the 13, 14 and 15th insts. It was the finest exhibition ever held in this city. Some magnificent flowers were staged which would have done credit to a much larger society.

The past summer has been very bad one for the growth of plants in this vicinity, owing to the long drought, but notwithstanding this great drawback the plants showed the great care and pains bestowed upon them.

L. E. Marquisse was the only florist who staged chrysanthemums, his exhibit was superb. P. R. Quinlan had a fine display of palms and tropical plants which added much to the attractions of the large hall. Among other exhibits worthy of mention were those of Peter Kay, grower to Hon. J. L. Belden, C. Rathbone, gardener to Mrs. Bissel, George Ham, gardener State Idiot Asylum, W.



VIEW AT THE PHILADELPHIA SHOW

Mencilly, gardener to H. S. White, P. Semple, gardener to G. Barnes. The plants and flowers of G. Batholme and Peter Kay were very fine, the latter had some very fine seedlings.

Messrs. Peter Henderson & Co. showed some blooms of their new "Louis Bochner," which attracted much attention. Messrs. Pitcher & Manda had a fine display of some very beautiful flowers. Mr. John Thorpe also sent a fine lot of flowers, among which were some very fine seedlings. The indefatigable Vice-President A. D. Perry had a stand of florists requisites, which was very tastefully arranged and added much to the appearance of the hall.

The price of admission was twenty-five cents the first two days and ten cents the last. It was clearly demonstrated that popular prices are what tend to make a flower show a success as the attendance was more than twice as large the closing day as on the two preceding. Had it not been for the heavy rain in the evening it would have been much larger.

The following were the prize takers: P. R. O'Neilan, L. E. Marquisee, P. Kay, G. Batholme, G. Ham, W. Mencilly, P. Semple, Thos. Durston, H. Youell, W. Huller.

Buffalo.

The first chrysanthemum show of the Buffalo Florists' Club was very successful. A very excellent display was made which called out most liberal praise from visitors and the press. The weather was favorable except on Saturday evening. Friday evening the great Music Hall was

uncomfortably crowded at times. The arrangement of the exhibits was very effective, Messrs. Chas. Keitsch, J. F. Cowell and Geo. Machure, the active part of the hall committee distinguishing themselves by the way this difficult task was happily accomplished. The orchestra was stationed in the center of the hall, partly concealed in a group of foliage plants. Three mantels handsomely decorated and two displays of table furnishings by caterers added materially to the exhibition. G. P. Rawson of Elmira, N. Y., filled a large space with chrysanthemum flowers, and Nathan Smith & Son of Adrian, Mich., showed cut blooms of new varieties. P. Henderson & Co. exhibited blooms of the Louis Bochner.

The display of cut flowers, designs and arrangements was large occupying nearly half of the exhibition space. The latter class were generally of superior quality and style, showing the progress our store men are making. Secretary Long had secured signatures to a guarantee fund to be used in case a deficiency occurred but as such will be small, in all probability the club will meet it unaided.

As the show proceeded and advertised itself, the disgruntled members of the craft, who didn't see the good of a show, or thought it would amount to nothing, began to show up, staying the day out, and before leaving thoughtlessly entering heartily into "we this" and "we that," etc. Critically they were "mums." One of them returned in the evening bringing his family. It is hoped they will actually be "in it" next time.

Wm. T. Bell of Franklin, Pa., judged the

plants, etc., first day, J. M. Gasser the flowers and arrangements on Friday. A collation was enjoyed on Friday evening. Though informal the toasts were responded to heartily and an enjoyable time was had.

President Scott is "great" still. He scores show prizes as readily as "strikes" in a ten pin game having reached the high number of fifty all told, twenty-six of them being "firsts." Secretary Long came close to the edge of the tureen as regarded prize-taking. He was here, there and elsewhere all the time, and little of his own work showed up in his displays; but a mantel decoration and a cross finished a half hour behind time, were worthy of first place, the judges said, and would have been awarded such were they ready on time. The uppermost topic now is, another show next year.

For chrysanthemum plants first prizes were awarded to William Scott for 4 Japanese, 8 Chinese, specimen Japanese, specimen Chinese, 24 specimens any variety. To George Machure for 8 Japanese, 2 Chinese, 24 specimens in 24 distinct varieties, 12 specimens in 12 distinct varieties, specimen plant of Mrs. Alpheus Hardy, 12 specimens of varieties introduced in 1888 and 1889. To Master Alfred Lewis for 12 specimens any kind.

For chrysanthemum cut blooms and arrangements of chrysanthemum flowers first prizes went to G. P. Rawson for collection of cut sprays, 12 naturally grown sprays and specimen bloom. To W. J. Palmer for 50 blooms in not less than 12 varieties and 50 blooms in not less than 4 varieties. To H. Tong for 12 bloo

in 12 varieties and 25 blooms in not less than 10 varieties. To Geo. Maclure for 12 blooms any variety. To Daniel B. Long for plateau of chrysanthemums. To William Scott for original design made of chrysanthemums.

In the geranium classes Wm. Scott took three first prizes and Mrs. D. Newlands one. For 12 carnations in not less than 6 varieties first prize went to Geo. Maclure. Of the three prizes offered for bouvardias two firsts went to Geo. Maclure and one to Wm. Scott. Jos. Rebstock took first for 12 single primulas. In the four begonia classes three firsts went to Wm. Scott and one to Geo. Maclure. In palms Wm. Scott took two and Jos. Rebstock one. In the three classes for dracaenas two went to Geo. Maclure and one to Wm. Scott. Geo. Maclure took first in each of the three fern classes, and Mrs. D. Newlands in the two classes for coleus. Wm. Scott received first for collection of 50 or more stove and greenhouse plants and for 6 specimens of heliotrope. Geo. Maclure for collection of 25 or more stove and greenhouse plants.

In cut roses first prizes were awarded to Wm. Scott for Mcmet, La France and Perle. To W. J. Palmer & Son for Bride, Bon Silene and general display of 100 or more blooms. Wm. Scott took first for 25 blooms of carnations, general display of pansies and general display of cut flowers.

In floral arrangements William Scott received first prize for 12 inch handle basket, dinner table center piece, 24-inch cross and 26-inch anchor. Daniel B. Long for bride's bouquet. Adams & Nolan for three corsage bouquets of roses and 24-inch pillow. W. J. Palmer & Son for Thanksgiving design and vase of roses. Joseph Rebstock for handle basket of any kind, 15-inch wreath and artistic piece of floral work. Geo. Maclure for basket of any kind.

London, Ont.

The chrysanthemum show of the Florists' and Gardeners' Club surprised all by its excellence, but the patronage from the public was not what it should have been. There was a beautiful display of chrysanthemums, both plants and cut flowers, and there were excellent exhibits of other plants and flowers, including a collection of orchids from Siebrecht & Wadley, New York. The members of the club feel rather disheartened over the poor appreciation of their efforts by the public and the consequent financial shortage. One of the local papers gives the citizens a severe overhauling for permitting so excellent a display to go comparatively unnoticed.

Awards were made as follows: Fred Dicks firsts for exhibits of 25, 12 and 9 varieties of chrysanthemums and best vase of cut chrysanthemums, seconds for varieties of 25 and 12 cut chrysanthemums and third for calla lilies; George Rennie seconds for varieties of 25 and 6 chrysanthemums; J. Gammage firsts for table decoration, bridal bouquet and carnations, seconds for calla lilies, carnations, cut roses and varieties of 12 chrysanthemums, and third for exhibit of 25 varieties of chrysanthemums; Thomas Wells firsts for calla lilies, ferns and exhibit of 12 greenhouse plants, and third for exhibit of primulas; G. & J. B. Cairncross seconds for table decoration and funeral design; and third for bride's bouquet and basket of cut flowers; W. S. & C. M. Greenaway first for basket of flowers, and seconds for greenhouse plants, ferns, funeral design, bridal bouquet

and primulas; J. Craig & Co. firsts for funeral design and cut roses, second for basket of flowers, and Webster Bros., Hamilton, firsts for varieties of 25 and 12 chrysanthemums.

Newport, R. I.

The first chrysanthemum show of the Newport Hort. Society was held the 11th to 14th insts. in Masonic Hall. There was a splendid display and the affair has been voted a decided success.

First prizes were awarded to David Gordon, gardener for L. L. Lovell, for 25 plants, 12 plants in 12-inch pots, 6 Chinese cut blooms and 6 anemone cut blooms, to A. Brandt for specimen plant, specimen plant of Mrs. A. Hardy, specimen standard, seedling plant, 50 cut blooms, 12 Japanese ditto and 6 ditto; to Robert McLeod, gardener to D. B. Fearing, for 25 plants of 1890; to A. McLellan, gardener for J. W. Ellis, for 6 Japanese in 12-inch pots, specimen anemone and 12 varieties regardless of class; to J. S. Cowles, gardener for Fairman Rogers, for 6 bush plants in 12-inch pots, 12 plants in 8-inch pots, 6 plants in 8-inch pots and specimen Japanese; to A. Swenson, for 12 plants in 6-inch pots; to Robert Christie, gardener for Mr. Wetmore, for 6 specimen standards; to Gibson Bros. for specimen Chinese and 12 varieties any class; to A. Meikle, gardener for W. S. Wells, for center piece for dinner table. For best seedling plant, Society's medal to A. Brandt, and special prizes to Gibson Bros. and A. McLellan, two each, and David Gordon, five.

Louisville, Ky.

Louisville's first chrysanthemum show opened on a very unfortunate day. It rained dismally all day and it was wet and disagreeable the day following. After that however the weather was fine and the attendance large. There was a large display of very good plants and some very fine cut blooms were shown.

Premiums were awarded to Nanz & Neuner for best five standard chrysanthemums and for best 20 varieties cut blooms of chrysanthemums; to J. Schulz for best floral design suitable for dinner, hall, or reception; to F. Walker & Co. for best design of floral shoe; to E. G. Reimers for original floral design; to C. W. Reimers for basket cut chrysanthemums, best five varieties cut chrysanthemums and best flat basket of same; to Mrs. Hodges for best vase bouquet; to S. J. Thompson for best new funeral design. Nanz & Neuner were given special mention for general display and assortment and for the "Mikado's dinner" which was spread on a table.

The Society of Louisville Florists under whose auspices the exhibition was given, is composed of the following firms: Nanz & Neuner, F. Walker & Co., C. W. Reimers, E. G. Reimers, Jacob Schulz, Samuel J. Thompson, Geo. T. Hodges and Clarence Stickler. The officers are Chas. Neuner, President; E. G. Reimers, Secretary, and Herbert G. Walker, Treasurer.

Correction.

In the report of the Indianapolis show, either the writer himself, or the printer, made a great blunder in describing one of the finest varieties exhibited; it should have read—

"Flora Hill, a large incurving pure white variety of perfect form and finish, centre full, does not show an eye; among whites what Widener is among yellows, etc." E. G. H.

PROVIDENCE, R. I.—At the chrysanthemum show of the Rhode Island Hort. Society held week before last, first premiums were awarded to R. J. Goddard for 25 named plants and 6 Chinese; to T. P. I. Goddard for 12 plants, specimen incurved and specimen Japanese; Arend Brandt for 6 incurved, 6 Japanese, specimen standard and best bloom new variety; to James Andrews for 4 pompons; to Farquar Macrae for 12 blooms Chinese; to Mrs. T. P. Shepard for 12 Japanese; to William Appleton for 50 blooms. Special prizes were given for chrysanthemum plants in pots to Thos. Curley, G. O. Westcott, Robert Johnson, James Nisbet, James Andrews, Arend Brandt and Chas. Fulford. For cut flowers to T. P. I. Goddard, James W. Stevenson, Thos. Curley, Howard Almy and Chas. Fulford. For displays of roses and violets to Wm. Hodgkinson. For carnations to H. E. Chitty, Paterson, N. J. for Lizzie McGowan.

ATLANTA, GA.—The chrysanthemum show of the Atlanta Horticultural Society was held in the rotunda of the capitol the 6 and 7 inst. There was a beautiful display. Mr. D. B. Woodruff the florist of Macon brought up a carload of excellent plants. Julius Martin of Little Switzerland also made a good display. Mr. Woodruff received the prize for finest standard chrysanthemums, and Mr. Martin for plants bearing the greatest number of blooms. Other awards were to E. Wachenodt for finest collection of roses, to Mrs. A. E. Boynton for finest collection of palms and like decorative plants, to Mrs. A. Lambert for warden case of plants, to J. E. Jackson of Gainesville for cut blooms of chrysanthemums and to James Burpitt for collection ferns.

EVANSVILLE, IND.—The chrysanthemum show was far superior to that of last year. The bulk of the first premiums went to the Floral Gem Greenhouses. Following is the list: For 25 plants, Floral Gem first, J. H. Wade & Co. second, Wm. Blackman & Son third. For 10 white Floral Gem first, Wm. Blackman & Son second, J. H. Wade & Co. third. For 10 yellow Floral Gem first, Wade second, Blackman third. For 10 pink Floral Gem first, Blackman second and third. For 10 fancy Floral Gem first, Blackman second, Wade third. For 10 standard Floral Gem first, Blackman second. For 25 cut blooms Blackman first, Floral Gem second.

UTICA, N. Y.—The flower show of the Utica Florists' Club at Oneida hall last week exceeded all expectations. It was voted a decided success. The exhibitors were Samuel Davies, J. S. Spencer, Jonathan Ancock, William Mathews, George Benedict, Frank Riley, Charles F. Seitzer, Charles F. Baker, George Treen, Peter Crowe, W. F. Hopkins, George W. Chatfield, J. C. Bigelow and others. C. H. Humphrey, of Rome, and H. M. Gage, of Sauquoit, also had varieties of chrysanthemums and carnations. It is quite probable that the club will give an exhibition some year henceforth.

BROOKLYN, N. Y.—The display of mums at the greenhouses of florist J. Condon has been visited by a large number of people. He had a splendid lot of plants in excellent condition. Another beautiful display was made by Mr. William Brown of Melrose Park, Flatbush, who threw open his extensive conservatory to the public. He had a splendid lot of chrysanthemums. A small admission fee was charged which was given to a local charitable institution.



VIEW AT THE PHILADELPHIA SHOW

KNOXVILLE, TENN.—An exhibition of chrysanthemums was held in a local store the 6 and 7 inst. Quite a number of plants were shown including a seedling raised here. It is the intention of the local florists to arrange for a regular competitive exhibition to be given next year.

COLUMBUS, GA.—D. B. Woodruff, of Macon, made a beautiful display of chrysanthemums at the recent exposition which received lengthy mention by the local press. He has received the title of "Chrysanthemum King of Georgia" from the Atlanta Horticultural Society.

ROCKFORD, ILL.—A chrysanthemum reception was given here on the 15th inst. by a leading society lady, who is a lover of this flower. Over sixty varieties were used in the display, the plants being effectively placed about the rooms of the house.

NEW BRITAIN, CONN.—There was a very excellent display at the chrysanthemum show given by the Horticultural Society last week. Florist C. T. Mason of Farmington showed 100 varieties, including many of the best new sorts.

MOUNT VERNON, N. Y.—A very successful chrysanthemum show was given last week by florist E. W. Weinmar in a large tent at the corner of First st and Second avenue. It was under the direction of a number of leading ladies.

SALINA, KAN.—Florist John Buchi gave a floral "reception" recently at his greenhouse. The display of chrysanthemums and other flowers made on the occasion

elicited very favorable comments from the local press.

MIDDLETOWN, N. Y.—A chrysanthemum show was held at one of the local churches last week. Prizes were offered, to be competed for by amateurs only. There were 33 entries, and quite a fair display was made.

NORRISTOWN, PA.—Florist E. Metcalf made a very beautiful display of chrysanthemums at his greenhouses last week. It was visited by large numbers, and was liberally noticed by the local papers.

FREDERICK, MD.—An exhibition of chrysanthemums was given last week at the store of florist Henry Trail. Several prizes were awarded to amateurs for specimen plants exhibited.

WILLIAMSPORT, PA.—The chrysanthemum and flower show at Chaapel's Greenhouses Nov. 12-15 proved a great success as was attested by the thousands of visitors who participated.

SAN DIEGO, CAL.—There was a beautiful display of plants and flowers at the chrysanthemum fair and it was voted a decided success compared with previous efforts in this line.

LA CROSSE, WIS.—The conservatories of J. C. Easton were thrown open to the public week before last and large numbers viewed the beautiful display of chrysanthemums.

SAN FRANCISCO.—The conservatories at Golden Gate Park have attracted crowds of visitors for the last week to see the

splendid collection of chrysanthemums now in bloom.

BROCKTON, MASS.—Mr. Geo. G. Snow a wealthy amateur threw open to the public last week his conservatories, and crowds flocked to see his beautiful display of chrysanthemums.

LOS ANGELES, CAL.—The chrysanthemum fair was very successful. The display of plants and flowers was unusually large and the quality was excellent.

HARRISBURG, PA.—A chrysanthemum show was given here last week by the Ladies' Advisory committee of the Young Men's Christian Association.

RALEIGH, N. C.—The annual chrysanthemum show held November 13 to 15 was a decided success. The best display was made by florist H. Steinmetz.

SCRANTON, PA.—The chrysanthemum show at the Arcade given by florist Clark attracted crowds of visitors. The display was better than ever before.

BANGOR, ME.—Florist F. H. Moses made a beautiful display of chrysanthemums here last week. The local press was warmly enthusiastic.

WILMINGTON, N. C.—A very creditable chrysanthemum show was given by the Ladies' Mite Society of St. James Parish November 14 and 15.

SCRANTON, PA.—Florists W. F. Will and T. B. McClintock gave a flower show last week at the Assembly building on Linden street.

SING SING, N. Y.—Florist George Classroom gave a free exhibition of chrysanthemums at his greenhouse during the past two weeks.

CARTHAGE, TENN.—A chrysanthemum show was given here week before last by local amateurs. It was quite successful.

BRIDGETON, N. J.—We are having a chrysanthemum show here. Don't propose to be left out of the swim.

COLUMBIA, S. C.—The recent chrysanthemum show was the finest ever seen here.

Exhibition Echoes From Philadelphia.

Mr. William Tricker, gardener for Judge Benedict, Dorgan Hills, Staten Island, N. Y., says: "A new chrysanthemum ought not to be sent out with a poorer center than that," pointing to Mrs. Bullock in his collection of 50 cut blooms, which he says goes also under the names of "Domination" and Mrs. DeWitt Smith. "Bride of Roses" and "Beauty" also the same, so also are "V. H. Hallock" and "Dawn." The latter variety was among importations received by two different firms, as I understood the matter, direct from Japan. This is where so much confusion is brought about. It is also said that old "Grandiflorum" has been re-imported and has been re-named "Dome of Gold." It is to be hoped that such is not the case. Of course most people know that this same variety is also known as "Temple of Solomon," but in the National Chrysanthemum Society's (England) catalogue the latter name does not appear, but "Mr. Barnes" is named as a synonym.

In Mr. J. Brydon's collection of cut blooms was a flower of Avalanche, which had been open one month; it speaks well for this variety as a "keeper," and especially after coming such a distance.

Everybody speaks in the highest terms of praise for the way David Beers, chairman of the committee of arrangements, and John Westcott, superintendent of exhibitions, managed the show. It reflects great credit upon these untiring workers for what they accomplished with the little assistance from other committeemen which they received.

There has been some talk about not opening the show until Tuesday instead of Monday, as was done this year, but it appears at this writing that it would be a mistake to postpone the opening. One reason given is that the show was not ready for the visitors, and another is that only \$180 was taken in at the door on that evening; but if only a small portion of the money received had been expended in securing the necessary amount of help the show could have been ready on time.

Aristochloa grandiflora is called the "Duck plant" on account of the flower when turned upside down looking like a duck in repose. These grotesque exhibits are not educational in the true sense of that term. There are a few no doubt who admired it as it was, but true lovers of flowers would have preferred seeing it as natural as possible where the real beauties of this large flower could have been seen. The rich coloring in the throat of the flowers and the delicate tracings could not fail to have drawn forth exclamations of pleasure if its charms had been displayed.

Mr. Tricker's list of 50 varieties which was awarded first premium were as follows: Kioto, Violet Rose, Veil d'Or, Miss Hartshorn, W. W. Coles, V. H. Hallock or Dawn, Robert Bottomly,

Mrs. Fottler, Eldorado, John Collins, Soliel Levant, Mrs. Geo. Bullock, Mrs. Irving Clark, Bynford White, Mrs. John Wanamaker, Ceres, Mrs. F. Jamison, W. H. Lincoln, Sunnyside, Mrs. W. Bowen, Superbiflora, Mrs. A. C. Burpee, T. C. Price, The Bride, Alecyon, Japonaise, Miss Mary Wheeler, Excellent, Mrs. H. Canell, Ada Spaulding, Pres. Harrison, Sunflower, Reward, E. G. Hill, St. Sophia, Ivory, Lilian B. Bird, Grandiflorum, Mrs. J. A. Edmonson, Coronet, Bride of Roses, Martha Harding, Mandas, Mrs. J. S. Fogg, Mme. Baco, Mrs. A. Carnegie, Mrs. Benj. Harrison, Pactolas, M. J. M. Piquiny, Mr. E. D. Adams.

A seedling was exhibited by J. L. Brown Wilmington, Del., closely resembling E. H. Fittler. It has the appearance of being a more robust grower than the Fittler, which must certainly soon go out of cultivation on account of its weak constitution. There seems to be more bronze in Mr. Brown's seedling than comes in generally, but the latter varies very considerably, sometimes it is nearly pure yellow, at others heavily streaked with red, giving it a bronzy appearance.

Mr. Robert Craig has bought Mr. Surman's seedling named "Mrs. Louis Childs Madeira," who says "it is the most remarkable seedling ever raised in America."

When the judges passed on the awards of chrysanthemums on Tuesday morning the Harry E. Widener exhibited by E. Asmus were very much wilted owing to some oversight in supplying water in the vase. This was most unfortunate, for on the evening they were placed in position Mr. Asmus' Wideners were away ahead of anything else in the hall; although Mr. Graham's Son had some magnificent blooms of the same variety.

In Fred. R. Sykes' collection of fifty blooms there was one fine flower of Widener, and a bloom of Mrs. Charles Wheeler, the equal of which has never been seen here.

Mr. Julius Koehrs' new hybrid rose attracted much attention on account of its bright color, and because it can be forced so early into bloom.

The seedling which took the "Veteran Prize" offered by Mr. Isaac D. Sailer was an incurved Japanese, delicate pink in color, and was raised and exhibited by W. K. Harris. The donor of the prize having the privilege of giving the novelty a name called it "Mrs. I. C. Sailer," and he may well feel proud of having so good a variety on which to bestow so worthy a name.

The Louis Boelmer exhibited by Peter Henderson & Co., promises to become a standard sort on account of its robust habit of growth; it is very distinct in this particular from Mrs. Alpheus Hardy, proving, I think, that one is not a sport from the other, although we must not be too sure of this stand taken, for there is no reason why a "sport" shall not vary in growth, from its parent, as much as in color.

"Eldorado," a seedling raised by Thomas Monahan last year was exhibited in fine form as a pot-plant by H. Waterer. It is an incurved Japanese, broad floret petals, and delicate yellow in color. It is a variety that promises to be a good exhibition sort both as a pot plant and for cut flowers; and it is earlier than most of the other variety yellows.

Secretary Farson is glad that the chrysanthemum show only comes once a year. He is now trying to recuperate, after the hard work of the past two weeks.

Two seedlings were on exhibition from John Lewis Childs; one named Mrs. J. L. C., the other Sunshade.

People still come to Horticultural Hall and ask for tickets for the chrysanthemum show. The daily press did nobly in the reports of the show and the advance notices, and the advertisements prepared by Mr. George C. Watson of the John Gardiner Co., aided greatly in preparing the public for the treat which was in store for it. Mr. Watson is an invaluable man in the capacity of committee on publication and much of the financial success of the show is due to his efforts as in indicated above.

The receipts were nearly \$3000, almost double those of last year.

EDWIN LONSDALE.

The Chrysanthemum Bee-Fly (*Eristalis tenax*).

This is a big brown bee-like fly that appears in large numbers upon our chrysanthemums and cosmos flowers in October and November. And they seem to come all at once, that is, I do not notice them till these flowers begin to open. They are especially partial to the cosmos and single-flowered chrysanthemums, and seldom trouble full double flowers. So long as we have plenty of these flowers out of doors these bee-flies are not at all troublesome indoors; but when the outdoor blossoms get scarce, or the weather becomes wet or inclement these dirty creatures betake themselves to the greenhouse. Out of doors or in doors they love warm sunny quarters and are always most abundant on the flowers upon which the sun is shining.

They do not puncture or eat the flowers, their business is entirely with the disk flowers, which they ransack thoroughly, sending their proboscis deep into the heart of every open floret. Then they beck out upon the petals or ray flowers and deposit upon them a yellow thin excrement, and in their clumsy way of stepping about often draw their heavy feet through this excrement and stain the petals in the most unseemly manner. These dirty stains are more readily noticed in the case of white flowers than colored ones and on greenhouse flowers because of their purer color than on outdoor ones.

I have also found these bee-flies on gailardia flowers in sunny borders, but not so far as I remember on any other outside flowers.

Now, however, I find they also infest stevia flowers and marguerite (*C. frutescens*) blossoms in the greenhouse, staining the latter quite badly, but not injuring the stevia perceptibly.

This bee-fly was first observed in this country at Cambridge, Massachusetts in 1875, but since then it has spread all over the eastern states. My attention was first called to it in October 1883 when it was quite numerous, just as plentiful as it now is. It is said to breed in pools of manure and water and cess-pools where its larvae are known as rat-tail maggots.

The mature flies are very diligent in searching the flowers and not at all easily disturbed at their work and can be caught by hand without much trouble. They can neither bite nor sting. When flying from flower to flower or from plant to plant their flight is very quick and they make a loud buzzing noise. In extenuation of their filthy habits it is urged by some that they assist in the pollination of the flowers they infest. No doubt they do, but of what advantage is this? Pollination always injures flowers required for cutting or conservatory or border decoration by hastening their decay. Chrysanthemums alone, among the flowers above mentioned need any assistance in



LÆLIA PURPURATA.

the fertilization of their flowers and surely it is far better to do this work ourselves with a camel's hair pencil than to encourage the aid of such loathsome creatures.

W.F.

Lælia Purpurata.

This fine orchid has been in cultivation about forty years and is a native of the southern portion of Brazil. Excepting the hybrids this species is the showiest of

this extensive genus and for this reason has been largely used as a parent by the hybridist. It thrives best with a somewhat cooler treatment than is usually accorded this class. Its large fleshy roots

delight in abundance of surface room and do not like to be disturbed. When the pot is filled with roots it is better to water with weak liquid manure. The new growths appear early in the spring and rapidly attain maturity, flowering generally about the month of June. The plants should then be placed in a cool airy house and kept moderately dry, though this species will stand more water than many of its congeners. It could be induced to bloom a little earlier *L. purpurata* would prove to be one of the most useful orchids to a florist, as it flowers very freely, producing as many as eight on a peduncle, which is always of good length. This orchid is also plentiful and cheap in the market and the first crop of flowers will more than pay the investment. F. GOLDRING.

Slingerlands, N. Y.



Wire Supports.

Where carnations are grown extensively the question of tying them up to some kind of support is one of very considerable importance, and involves a good deal of expense in time, labor and material.

One season I supported my carnations after a fashion by the use of longitudinal wires stretched taut, to which the flower stems were tied as they advanced in growth, but this proved a very unsatisfactory experiment, inasmuch as carnations are not like roses in this, that the rose plant itself can be secured to the wire, and the bud with the necessary length of stem may be detached when ready to cut without any displacement of the ties. But with the carnation it is the flower stem itself that needs the support, and if these are secured in bunches to the wires, several disadvantages at once present themselves, not the least of which is the greatly increased difficulty of gathering the flowers, the tie so interfering with this operation as to make it a very disagreeable one. After one season's trial of this method I abandoned it as decidedly unsatisfactory.

The next season I tried the experiment of placing a stick to each plant and tied up the flower stems as they advanced, but here the same difficulties presented themselves as with the wires, the ties were so much in the way when gathering the flowers that where large quantities are needed the method seems to me to be impracticable; besides, with the sticks, another very serious objection presents itself in the fact that however neatly and securely they may be placed to the plants, after a short time they begin to lop over, to fall down, and to describe as many degrees of perpendicularity as there are plants in the bed, there being insufficient depth of soil to retain them in an upright position.

With so many adverse and discouraging circumstances to contend with, for several seasons, I abandoned all attempts to tie up my carnations in any way or shape, leaving them entirely to a state of nature as far as supports were concerned, but even this method is not without its very serious objections, chiefly because after a while the plants fall over into the foot-

paths, and, partially blocking up the usually not over generous allowance of this commodity, become considerable of a nuisance, which is greatly aggravated in spring and early summer, when the plants have attained their maximum growth.

In view of this last difficulty I have this season adopted a plan which I think will serve a very useful purpose. Previous to planting my side benches I stretched twelve-inch wire netting (chicken size) along the back of each bench. This will prevent the flowers from falling down behind the benches, and as the growth demands the same will be done along the footpaths, which will keep the plants and flowers from hanging over and preserve a somewhat neat appearance. The cost of the wire netting here is 65 cents per 100 running feet, one foot wide, and, judging from present appearance, I think its use will pay. Shall be pleased to report later, and would like to hear from others in this connection. H. E. CHITTY.

Paterson, N. J., Nov. 12.

Carnations at Avondale

It was a wet ugly day when I took a jaunt through this section, but an interesting and profitable one.

A newcomer in the field, Mr. E. W. Shelton, has the heating apparatus described in number 119 of the *FLORIST*; it works like a charm and is certainly a first class arrangement for a medium sized place. He has two well built houses stocked with an assortment of carnations.

At Mr. Chas. Starr's there is the usual host of novelties. Christmas and Wm. F. Dreer will contest the field for that star of Mr. Thorpe's that carnation growers have placed above Grace Wilder. Golden Gate is looking well and will no doubt stand on its own merits. Amateurs especially will welcome this long sought for pure yellow.

He also has a crimson *J. R. Freeman* that has the unusual feature in this color of being quite fragrant. There is a steady effort toward a blue at this place and the result at this date is a rich deep purple; perhaps the blue will come later on.

At Mr. W. R. Shelmire's the hand of the cross-fertilizer is again visible and the result is a number of fancy varieties not yet named which will perhaps be introduced this season. Here there is also a new sort, not the result of crossing; a sport from Chester Pride that is pure white with all the characteristics of its parent; we will no doubt hear from this variety later on as there is the better part of a house on trial.

One almost breaks the command "Thou shalt not covet thy neighbors goods" at the sight of so many novelties, and involuntarily feels the size of his purse at the thought of buying and trying them all.

ALBERT M. HERR.

Wire Supports.

In reply to J. G. H., page 139, I have used wire supports two years to my satisfaction. Fasten a wire on sash bars over each row, then cut supports long enough to enter earth one inch, hooking on overhead wire. Mine are cut from common galvanized fence wire.

W. H. W.

BUFFALO.—Mr. Wm. McMillan, superintendent of the Buffalo parks, read before the Society of Natural Sciences, November 12, a very instructive paper on "Half hardy trees and shrubs."

Louis Siebrecht's.

It is a real pleasure to drop in to see Louis, he is always so bright and so happy, his stock is always in such excellent order, his system of succession crops so perfect and everything about his place so neat and clean. Tens of thousands of bulbs in pots and boxes are stowed away in his bulb shed waiting their turn and season to be introduced to the light and warmer quarters. Harrisii and Louisiana lilies having a good start in life fill up every vacant spot upon the benches, and as soon as more room can be cleared for them they will be repotted into large pots; candidums in large pots are ranged along the pathways the whole length of some of the houses, waiting for room on the benches. His finest candidums are home grown, that is, they were a lot of small bulbs bought by C. H. Allen a year ago and grown out of doors all summer. Quantities of mignonette and rose geraniums in small pots are also being grown to succeed the chrysanthemums on the benches.

Right over the hot water pipes and near the front wall of one of the carnation houses is a long trough-like box filled with spiraea. It is rather dark above it as the glass does not come down within a foot of the wall, but spiraea does well here for it gets the heat back and front and in this way the tops are kept continually dry and free from damp.

His heliotrope is very fine. The plants are one-year stock, clean-stemmed standards 16 to 20 inches high and all in 5 and 6-inch pots, and these pots plunged fully half their depth into the center bed which is a solid one. By having them in pots they are under complete control and flower well without growing too rankly; he feeds them with bone meal in the pots, besides the roots escape into the bench and do some extra foraging in this way.

His syria is in pots and now occupies the bench, which in a few weeks will be used for propagating carnations.

Chrysanthemums are most everywhere, and they are splendid. One house for late use and which is kept quite cool is filled with Mrs. N. Hallock, white; Pelican, white; Dosoris, yellow, and Thunberg, yellow. Mrs. N. Hallock is a reflexed Chinese flower somewhat small, white, quite late, and it is a compact grower with good foliage, good constitution and stiff spike. Pelican is a large-flowered Japanese sort, white, late, very free-blooming, and scattering blooms of it are generally to be had into mid-winter. Thunberg is excellent in its way but the flowers have got to be cut in sprays as they interlace so much that they cannot very well be separated singly. Dosoris is a seedling raised by me a few years ago. It is Japanese and a deep yellow, somewhat flat flower with narrow petals and one of the latest blooming of chrysanthemums. The foliage and constitution are perfect and the flower stem as stiff as a poker. "For market it is the best late yellow that I have got," remarked Mr. Siebrecht to me, "If I had a better one do you think I'd grow as much of Dosoris as I do? No sir, I wouldn't."

Now, "Dosoris" is an instance of over severity in selection. I raised it, but because it didn't come up to my ideas of excellence I discarded it. My neighbors thought better of it, however, and kept it, grew it and found the proper use of it, and now I have got to buy back the plant I myself pitched out three years ago.

Mr. Siebrecht grows a large quantity of Dianas. It is an improved Chinese variety, pure white, somewhat small, but ex-

ceedingly profuse and rather early and in much demand for "making up." Domination is a special favorite, and now about all cut. He has secured a sport from Domination and which also has white flowers, but the blossoms are unusually large, very full double, high in the middle and the middle petals twisted.

"Stonewall Jackson" (Crystal Queen), among pure white Japanese sorts is supreme. The flowers are very large, bolt upright, and on stout, stiff stems. Both with Mr. Siebrecht and Julius Scharrf this was splendid and the finest white chrysanthemum of any sort they had in full bloom. It is somewhat late.

Syringa, peach-pink, was wonderfully fine, the large, full double blossoms twisted into each other in sheaves. V.H. Hallack, not much unlike Syringa in color, and very large, was also much esteemed, but, so far, too scarce to test as a market variety.

Among yellows Mr. S. regards W. H. Lincoln as the very finest in the market. The flowers are very large, full double, high in the middle, pure deep yellow, bolt upright and on stiff stems. Kioto, although another type of flower, also pleases him much, but it should be well disabused to get fine flowers; only it inclines its head to the side a little too much. And he likes it better than Mr. H. Cannell which is of somewhat similar style.

He had very handsome Mrs. Alpheus Hardy from June cuttings, but Grandiflorum from summer cuttings made centaurea-like bunch growths and did not bloom at all.

The chrysanthemum bee-fly troubles him a good deal, and, although it shows a preference for composites, its tastes are becoming more general, and it is rather severe on early Paper White narcissus.

W. F.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XIX.

FULL BLOOM AND OVER-RIPE CLAIMS.

Yes, your business is very much like mine, accounts, bills, claims, notes, etc., all have a certain time to reach a full bloom and after that they get to be over-ripe and are worthless.

As you say, it is easier to sell roses in the bud; so accounts and claims that are fresh and new are better than stale ones. No one wants a note that is past due, or a claim that has stood so long that all its fragrance has gone out of it. Now, fresh business transactions have a pleasant odor about them. I like to handle the papers and catch a whiff of the sweetness of a "cash payment."

It is said that Queen Elizabeth who was a really great woman hated old accounts. Her orders were, Pay them off, don't let them accumulate on your hands.

Now, as you know, all of our states have statutes of limitation, that is, laws which require you to sue for a debt within a certain time or lose your remedy. After that time, generally six years, the debt becomes "outlawed," in other words, "over ripe," worthless.

I'm speaking now of such debts as for goods sold, services rendered, notes of hand, contracts to do or not to do, when not under seal. Claims for damages for false imprisonment, assault and battery, slander or libel must be commenced in some states within two years, in others within one year. But the general rule in all business matters is six years.

Now, the first question for us to examine is: When do the six years begin to run against an account? This is very important. The statute begins to run the moment the debt is fully due, that is, the moment you have a right to bring suit.

For instance, suppose it be a note of hand, then the six years would run from the moment it went to protest. If it were a bill of goods sold on credit the statute would run against it as soon as the credit expired, for you would not be entitled to bring an action to collect until then.

Yes, you're quite right, Father Time is a wonderful paymaster, and if he has his way he'll wipe out almost all the claims in the world, and the beauty of it is that he doesn't use a single cent in paying them off either.

What's that you say? Oh, no, if you absent yourself from the state while the six years are running you stop the action of the statute at once; that is, it adds just so much time to the six years. To outlaw a claim against you you must be "out-of-state" for six consecutive years.

Now you ask about an "open account" and when the statute begins to run against it. I'll explain that for you. The general rule is that you may bring suit on an open account any time within six years after the date of the last item, either debit or credit. The account may be full bloom for many years, provided it is one and the same account and has new blood put into it from time to time just before the six year limit expires.

For instance, you may sell flowers to some customer for twenty years, and if the account is kept fresh and alive, when you come to bring suit within six years from the last entry your statement may include the whole twenty years business. Of course it is always within your power to put an end to the account and start the statute running by simply rendering your customer a statement.

You say you render monthly statements. That's all right, it's a good plan, keep it up, but bear in mind when you come to sue an account don't try to break it up and sue for a portion at a time. That won't do. The law doesn't like law suits, strange as it may sound to you, and insists that when you do sue you must include everything that is due and owing at the time, absolutely everything.

What you ask about rent doesn't conflict with what I say. You may sue for each month as it becomes due, for at that time the next month is not due, but if you had to pay three such suits on the docket, the law would require you to bunch them before going to trial. You ask me if there is nothing to be done with an over-ripe account. Yes, a basket of fruit from your garden may be too ripe to sell or even to eat but it is not worthless. I needn't tell an old farmer like you that rotten apples are not of some use in a cider mill.

Well, as to these "over-ripe accounts," first try a little "Sunday school talk" on the debtor. Tell him that it is really not strictly honorable to let Father Time pay off his debts; in other words get him to revive the debt by a written promise to pay it. If a note, have him renew it if possible before it gets to be over ripe. Don't take his mere verbal promise, it's worthless.

Second, endeavor to secure a payment "on account," no matter how small, before it becomes outlawed, that will set it on its legs again for another six years. If he has no money, merchandise will do as well, only get him to state in writing

that such goods were meant as a payment.

Third: In case it is a joint note, don't think that a renewal note by one of the parties will be of any binding effect upon the other. The rule is that when there are several parties to a business transaction (I am not speaking of partners) one can't change the tenor of the obligation or renew it, so as to bind the others.

Your action once begun, that is summons once served, there is no specified time within which you must proceed to trial. It lies entirely within the discretion of the court. The calendars are full of suits as old as the century. But it's all wrong, if you must go to law, push for judgment as fast as possible.

Your absence as creditor from the state has no effect upon the statute, it hangs on running just the same. I refer to the debtor. Now this is the general rule. There are exceptions. Suppose, for instance, that the person who owns the claim is a baby six months old. The law will not only wait until he becomes of age, but in most states, give him a full year within which to commence his action, and in some states, even the full six years after he has become of age. Or, suppose a man be imprisoned on a criminal charge, the law would give him a full year after his sentence had expired. In a word, all disabilities stop the statutes. But this is a rather intricate subject and I'll not go into it.

Of course you must not think that the statute aims against the security, collateral to a debt. I mean, suppose you give a note with a mortgage on your house and let as security, the six years runs against the original debt only, and has nothing to do with the mortgage.

In all states, there are different periods within which a person must be prosecuted criminally, but once indicted, it stands forever unless tried or dismissed; merely "pigeon-holed" it doesn't kill an indictment. The crime of murder is never outlawed, but the man must die within a year and a day or it will not be murder.

You ask me about a demand note: The six years begin to run against it at once, that is from its date. Yes, a promissory note might be made under seal but that would destroy its negotiability, for you could only assign it or pass it by a written instrument.

You must bear in mind that notes of hand are peculiar creations of law and are not to be judged like other instruments. They are intended to make business transactions easily practicable and that the mere fact of your name being upon a note only makes you liable in case certain technical rules are strictly followed on. The general rule is that to revive a written obligation you must make a written instrument of equal solemnity.

In conclusion: Keep your business transactions all in the bud, fresh and crisp and the fragrance of your yearly balance will be delightful.

UNCLE BLACKSTONE.

Roses in Solid Beds.

Having to grow roses for flowers during the summer it would be a favor to a number of us if some one who has used the solid bed system would give us a few notes in regard to the best varieties to grow and depth of bed or bench.

A SUBSCRIBER.

QUOTE A number of the daily papers in the smaller cities are urging that arrangements be now made for chrysanthemum shows in their cities next year.

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THE GREAT Chrysanthemum Centenary Festival of the National Chrysanthemum Society of England took place at the Aquarium, Westminster, the 11th to 14th insts. Many valuable and interesting papers on the chrysanthemum were read and there was a grand competitive display. The evening of the 13th a grand banquet was participated in by a large number. No effort was spared to properly celebrate the 100th anniversary of the introduction of the chrysanthemum into England.

SHIRLEY HIBBERD, editor of the *Gardeners' Magazine*, died at Kew, England, last Sunday, November 16. Mr. Hibberd was a popular, accomplished and brilliant writer on all horticultural matters, the author of many books on amateur gardening, an elaborate work on the Ivy, etc. He also was an active member of the Royal Hort. Society of London.

We have received from Messrs. Nathan Smith & Son, of Adrian, Mich., specimen blooms of their seedling chrysanthemum Yonitza, which was incorrectly printed in last issue as "Yarutza." The flower is certainly a handsome one, incurved, a ball of white faintly tinted with yellow.

FLOWERS of a medium sized white carnation, deeply fringed and fragrant, have been received from S. S. Bain, Montreal. He states that it is a seedling. It will undoubtedly prove useful should the habit and freedom of bloom come up to the mark.

SPECIMEN blooms of seedling chrysanthemums raised by Mr. E. Seidewitz, Annapolis, Md., have been sent us by that gentleman. Some of them are very good flowers, "My Maryland" being the best.

"CALDWELL the Woodsman" sends us one of his catalogues entitled "A wail from the woods." It is rather a departure in the catalogue line and parts are worth reading as a humorous skit.

We have received a copy of the souvenir programme of the chrysanthemum and musical festival at Louisville. It is very tastefully gotten up.

FROM a Philadelphia paper we learn that the new rose "Wahan" is a "lovely sprout" from the popular favorite "Cave Wermet."

THE Pennsylvania Hort. Society re-elected all the old officers at the annual election held November 18.

Society of American Florists.

The annual report of the society for the year 1890, giving a full account of the proceedings at the Boston meeting, is now ready and has been mailed to every

member of the society entitled to receive it. If there are any members who have failed to receive it or whom it has reached in a damaged condition they can obtain a duplicate copy by applying for the same. The report is mailed only on receipt of dues for the current year. Members whose dues for 1890 are unpaid, also all those identified with the trade who have not yet connected themselves with the society are solicited to forward the requisite amount (\$3) and the report, which is well worth all it costs, will be mailed in return.

WM. J. STEWART, Secretary.

Boston.

Prices in the cut flower market still continue low, especially on roses, which are being offered at apparently ruinous figures. Chrysanthemums are abundant but falling off in quality somewhat. Thanksgiving week will probably see an improvement in the market, particularly if the weather should turn cold.

Many of the S. A. F. members are still enquiring for the address of the photographer who took the group picture at Lexington last August. The address is J. W. Porter, 64 Warren St., Roxbury District, Boston, Mass. The undersigned will say further that while he has no doubts of the good intentions of this gentleman to perform all he agreed to, yet no officer or member of the S. A. F. or of the Gardeners' and Florists' Club nor any one connected with the Hayes' estate had anything whatever to do with bringing the gentleman there to take a picture. He was at that time, and is practically now, an entire stranger to every one connected with the excursion, and the venture was of his own choice and on his own responsibility only.

He asserts his intention to forward as rapidly as possible all the pictures for which he has been paid, and those who have not received them are advised to write to him direct and insist upon prompt attention.

Mrs. F. B. Hayes, whom the visitors to the Boston Convention have occasion to remember with gratitude, died on Thursday November 20. Mrs. Hayes has been ill for some weeks, indeed at the time of the visit to her Lexington home she was unable to meet the delegates on account of her failing health. Her husband was at the time of his death in 1884 president of the Mass. Hort. Society. Ever since that time Mrs. Hayes has continued the same interest in matters horticultural, and followed in the footsteps of her illustrious husband as a patron and true friend of the horticultural society. She has been a constant contributor to all the exhibitions of the society. The display of rhododendrons at Lexington every June is magnificent and is visited by thousands annually.

Mrs. Hayes' kind attention to the Society of American Florists last August was only a sample of the welcome which always awaited the fraternity at her hospitable home. A number of representatives from the Mass. Hort. Society, the Society of American Florists and the Gardeners' and Florists' Club attended the funeral, and appropriate floral offerings were sent in the name of the two latter organizations.

At the chrysanthemum show of the Mass. Hort. Society Geo. Hollis showed quite a number of seedlings, notice of which was overlooked in the report of the exhibition in last week's issue, among them were the following:

Edith M. Hollis, pink, delicately shaded

white and yellow, with long petals and high full center.

Capt. Crosbie, deep rose madder, reverse silvery pink; petals irregularly twisting, forming a large globular flower.

Weymouth Belle, pink, shaded magenta, petals broad.

Warrior, of Mrs. Wheeler type, petals scarlet red with light cinnamon without. California, full double, bright orange.

Old Colony, petals incurving, red on upper surface, old gold below.

Crimson Globe, Chinese reflexed.

Jessie K. Crosbie, pompon, light sulphur, full double.

The firm of S. W. Twombly & Sons having been dissolved the florist business at 161 Tremont street will henceforth be conducted by Mr. W. A. Twombly, the junior member of the late firm. W. J. S.

Diabrotica Twelve-Punctata.

This is the name of the 12-spotted cucumber beetle. But, far from it, this little rascal does not confine his taste to cucumbers, melons and squashes, indeed, they are to him as porridge is to a Scotchman, very good food when he cannot get anything else. Now this voracious little beetle has taken a special fondness for canna and cosmos. All summer long he ate into riddle-holes our lovely canna flowers, and as soon as the dahlias came in bloom he attacked their blossoms with earnest avidity. But the glory of his life seems to be cosmos and chrysanthemum flowers, in fact, although we have any amount of cosmos out of doors yet (November 1, for we have had only one light frost) we have got very little good of them because of this 12-spotted beetle. The chrysanthemums, because of their, doubtless, are not so badly marked as are the cosmos.

A curious thing about this beetle is, that it has appeared here in extraordinary numbers this season; they have never before been so numerous or so destructive; furthermore, while most all of our other injurious insects have, long ago, gone into winter hibernating quarters, this pernicious, little, spotted victim seems to be just as hungry, lively and energetic as he was in August or September. His cousin, the striped cucumber beetle (*Diabrotica vittata*), has never so far as I know, gone outside of his legitimate sphere to attack any of our other garden plants. But, altogether they are a bad lot. And it isn't the mischief they do as mature beetles that we have only to be afraid of; their larvae bore into the roots of succulitaceous plants and kill them. Whether or no they will do so in the case of other plants, I do not know. W. F.

THE MURDEROUS PORCUPINE ORCHID (*Orchis Porcupinea*).—The boss liar of the Albany *Telegram* is a Col., a Prof. and a botanist. A few years ago he had a thrilling experience in Southern Georgia when he saved a negro from the fatal embrace of the terrible man-eating plant. This carnivorous wonder is indigenous to the banks of the Upper Nile, but for convenience a little colony has established itself about 100 miles west of Savannah, and its members maintain their pristine fondness of the Ethiopian. The plant is four to six feet high and has long narrow leaves that change, the second year, to fan-shaped. Each plant produces only one flower which is cup-shaped, eight feet in diameter, and borne on a scape twelve feet long; it is composed of five petals one being very much longer than the other. The color of the bud is crimson, of the open flower purplish-green

embroidered with yellow. It is very beautiful, and fragrant as the attar of roses, that is, till it eats a man, then "the smell is like that of a charnel house." From the roots fine nerves run out in all directions for a rod or more and communicate with a brain in the stem of the plant. The leaves are thickly armed with keen-pointed, poisoned thorns behind which are sacks filled with compressed air. As soon as a negro treads upon the root nerves all the leaves facing in that direction discharge a broadside of their deadly thorns into the darky, and the root-nerves emerge from the ground and envelop, strangle and devour him. "These man-killers are particularly shunned by the negroes who say that a Porcupine plant that has once killed a man becomes rapacious for human blood and shoots out its tendrils for many rods around to entrap unwary negroes." They also call it "Devil Plant."

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" Perles, Sinnetts.....	3.00 @ 5.00
" Mermets, Brides.....	3.00 @ 6.00
" Rosa La France.....	4.00 @ 5.00
" Am. Beauty.....	5.00 @ 6.00
Carations.....	1.00 @ 2.00
Valley.....	50 @ .75
Violets.....	50 @ .75
Chrysanthemums, common.....	1.00 @ 2.00
Chrysanthemums, fancy.....	5.00 @ 15.00
Roman Hyacinth.....	1.00 @ 2.00
Smilax.....	12 @ 50
Adiantum.....	1.00 @ 1.50
Callas.....	10 @ 20
PHILADELPHIA, Nov. 22.	
Roses, Beauties.....	15.00 @ 25.00
" Perles, Niphetos.....	2.00 @ 4.00
" Albany.....	6.00 @ 8.00
" La France.....	4.00 @ 5.00
" Mermets, Brides.....	5.00 @ 6.00
" Pierre Guillote, Hostes.....	5.00 @ 6.00
" Gontier.....	2.00 @ 2.50
Valley.....	50 @ 1.00
Carations, long.....	1.00 @ 1.50
Carations, short.....	15.00 @ 20.00
Smilax.....	15.00 @ 20.00
Adiantum.....	1.00 @ 1.50
Violets, single.....	35 @ 50
Bourdays.....	1.00 @ 1.50
Chrysanthemums.....	1.00 @ 20.00
NEW YORK, Nov. 22.	
Roses, Bon Silene.....	\$1.00 @ \$1.50
" Gontiers.....	2.00 @ 4.00
" Perles.....	2.00 @ 4.00
" Sour, Niphetos.....	2.00 @ 4.00
" Mermets, Brides.....	4.00 @ 5.00
" La France, Albany.....	5.00 @ 6.00
" Vastelles, Camille.....	5.00 @ 6.00
" Bennetts, Hostes.....	3.00 @ 4.00
" Beauties.....	15.00 @ 20.00
Smilax.....	15.00 @ 20.00
Carations, long.....	1.25 @ 1.50
Adiantum.....	1.00 @ 1.50
Roman Hyacinth, narcissus.....	5.00 @ 6.00
Bourdays.....	50 @ 1.00
Violette.....	1.25 @ 1.50
Chrysanthemums.....	1.00 @ 2.00
Chrysanthemums, per bunch.....	10 @ 35

CHICAGO, Nov. 24.

FRANKFURT, Nov. 24.	
Roses, Perles, Niphetos.....	\$5.00 @ \$6.00
" Gontiers.....	4.00 @ 5.00
" Bon Silene.....	7.00 @ 8.00
" Mermets, La France.....	7.00 @ 8.00
" Brides, Bennetts.....	7.00 @ 8.00
" Am. Beauties.....	7.00 @ 8.00
Carations, short.....	1.00 @ 1.50
Carations, long.....	1.50 @ 2.00
Smilax.....	15.00 @ 20.00
Adiantum.....	1.00 @ 1.50
Chrysanthemums.....	1.00 @ 1.50
Bourdays.....	6.00 @ 7.00
Valley.....	18.00 @ 20.00
Callas.....	10 @ 20

CHICAGO, Nov. 24.

FRANKFURT, Nov. 24.	
Roses, Perles, Niphetos.....	\$5.00 @ \$6.00
" Gontiers.....	4.00 @ 5.00
" Bon Silene.....	7.00 @ 8.00
" Mermets, La France.....	7.00 @ 8.00
" Brides, Bennetts.....	7.00 @ 8.00
" Am. Beauties.....	7.00 @ 8.00
Carations, short.....	1.00 @ 1.50
Carations, long.....	1.50 @ 2.00
Smilax.....	15.00 @ 20.00
Adiantum.....	1.00 @ 1.50
Chrysanthemums.....	1.00 @ 1.50
Bourdays.....	6.00 @ 7.00
Valley.....	18.00 @ 20.00
Callas.....	10 @ 20

WM. J. STEWART,
Cut Flowers & Florists' Supplies
WHOLESALE

67 BROMFIELD ST., BOSTON, MASS.
Mention American Florist.

EDWARD C. HORAN,
34 W. 29th St., NEW YORK.

Having removed to more spacious quarters (next door) with increased resources and facilities I am now prepared to furnish at short notice and in any quantity, selected Roses of every variety, also all other flowers in market.

Roses to be shipped are especially selected, and packed under personal supervision.

SPECIALTIES:

American Beauty, La France, The Bride, Mermets, Mme. Hoste, Duchess of Albany, and other flowers, carefully packed, to all points in the United States.

Return telegrams sent when orders or part of them cannot be filled.
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WHOLESALE FLORISTS,
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We make a specialty of shipping roses, roses and other flowers, carefully packed, to all points in Western and Middle States.
Return telegrams sent immediately when it is impossible to fill your order.

E. H. HUNT,
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79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept.).
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

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All Cut Flowers in season. Orders promptly shipped. Store open until 9 P. M. Sundays until 2 P. M.
ALL SUPPLIES. WIRE WORK A SPECIALTY.

C. H. FISK,
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
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OPEN NIGHTS AND SUNDAYS.

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GRESENZ & HARMS,
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Wholesale Dealers in
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And Florists' Supplies.
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese,
WHOLESALE FLORIST
66 Wabash Ave., CHICAGO.

Consignments Solicited.
STORE OPEN NIGHTS AND SUNDAYS.

LaRoche & Stahl,
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CUT FLOWERS,
1237 Chestnut Street, PHILADELPHIA.
Consignments Solicited. Special attention paid to shipping. Mention AMERICAN FLORIST.

CHAS. E. PENNOCK,
WHOLESALE FLORIST
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Commission Dealer in Cut Flowers,
1225 Market St., ST. LOUIS, MO.
Quick sales and prompt returns guaranteed. Consignments solicited.

J. M. McCULLOUGH'S SONS,
Wholesale Commission Dealers in
CUT FLOWERS,
134 & 136 Walnut Street, CINCINNATI, O.
SPECIALTIES:
Price Chrysanthemums and Orchids:

CUT FLOWERS.
The choicest Cut Flowers, of our own growing, at lowest market rates, shipped C. O. D. Use A. F. Code when ordering by telegraph. Telephone connections. For prices, etc., address
J. L. DILLON, BLOOMSBURG, PA.

☉ The Seed Trade. ☉

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN BOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

MR. UNDERHILL formerly of the well-known pea and bean growers, Howard & Underhill, at Cape Vincent, is now at St Paul with L. L. May & Co.; doubtless those northern lights of Mr. May's seed department will stream up brighter than ever with Mr. U. behind the scenes assisting on the wires.

PHILADELPHIA.—Clarence W. Moore and Isaac N. Simon will open a seed store at 149 North Third street next month, under the firm name of Moore & Simon.

MR. CHAS. P. BRASLAVOFF, N. B. G. & Co., Minneapolis has been visiting the eastern seedsmen and discussing seed combine and beans in Boston, which is proper.

LONDON, Nov. 5.—To-day's reports describe the French clover seed crop as proving short, so that France will have to import from America.

BOSTON, Nov. 21.—The well-known suit of William Meggat against Joseph Breck & Sons for onion seed was decided to-day in favor of Mr. Meggat.

THE F. C. Austin Mfg. Co., of Chicago, makers of agricultural implements, are reported to have failed November 19.

News Notes.

ST. LOUIS.—The wife of Mr. J. Juengel the florist died recently.

BEATRICE, NEB.—A. C. Frese has started a cut flower business here.

ORANGE, N. J.—Mr. John McGowan, the florist, and Miss Annie B. Brodewer were married November 19.

TACOMA, WASH.—E. R. Roberts has opened a floral store at 908 Railroad St. On the opening day he made a display of blooming plants and flowers which attracted many visitors.

NEW BRITAIN, CONN.—At the last meeting of the Horticultural Society three new members were elected making an increase of ten new members in the last two months. At the next meeting the annual election of officers will occur.

MONTREAL.—Mr. J. Bland, gardener to Mr. J. Burnett, is the lucky owner of a new and distinct variety of the "Ostrich Plum" section of chrysanthemums. It is a deep yellow in color and about the same size as Mrs. A. Hardy, but globular in form, and decidedly more hairy. The flower is not fully developed yet, but as soon as it is it will be photographed. It is believed to be a sport from Palma.

CLEVELAND.—Fred Aul, of Glenville, is rebuilding his greenhouses at a point a short distance east of the old location. The new plant will be devoted entirely to the production of cut flowers. Caspar Aul is about about to purchase land some distance from his old location where he will build a new establishment. Fred Herke, son of Peter Herke, the south side florist, is now a nimble mail clerk on the Lake Shore route.

WORCESTER, MASS.—The annual meeting of the Worcester County Horticultural

Society was held on the 5th inst. with about fifty members present. The annual election of officers resulted in the selection of Hon. Henry L. Parker for president and Stephen Salisbury, George E. Francis and H. F. A. Lange for vice-presidents. Chas. E. Brooks was re-elected librarian and treasurer, and Edward W. Lincoln was re-elected secretary. The treasurer's report showed receipts during the past year of \$7,067.50, expenditures \$6,744.02, and a balance in hand of \$4,284.73. The society is now out of debt. A committee was appointed to arrange for a proper celebration of the fiftieth anniversary of the society two years hence. A member of the society was suspended indefinitely for infringing a rule of the society in exhibiting as his own productions plants and flowers purchased elsewhere by him.

Philadelphia.

Exhibition week was very large. Of course it only possessed the legitimate number of days, but the nights, the all nights, were very numerous. One in particular stood out as tremendous, it was the night of the annual chrysanthemum dinner of the Florists' Club.

About one hundred and twenty were gathered around the festive board, and such a lot of jolly good fellows, and how they did enjoy themselves. The visitors were from all over the country. Boston, New York, Summit, Washington, Baltimore, Lancaster, Pittsburg, and further west, were all represented. Boston sent ten, New York eighteen or twenty, while other cities sent delegations of their best men. Mr. Robert Craig presided. After the inner man had been satisfied and the coffee and cigars made their appearance, he started the ball rolling by a speech in his very best vein; it was full of good points. The flower of the day was toasted, and Mr. John Thorpe responding made one of his characteristic addresses, in which he said that the show was the finest in every department that he had ever seen, and he doubted if it had been equalled anywhere before, but still he expected to see the improvement kept up for many years to come. Mr. Calder responded to Boston, which was the next toast, in his usual bright and eloquent style.

It was now time for a song, and as the man of the occasion was present, Mr. Edwin Lonsdale, alias "The Duke," he was called upon and sang the following, written for the occasion, to the tune of Maryland! my Maryland.

Of all the flowers I love so well,
Chrysanthemum; chrysanthemum;
There's one whose praise I'll ever tell,
Chrysanthemum; chrysanthemum;
It's these fine and lovely synthetism,
And then last fall it sold so well,
And caused my bank account to swell,
Chrysanthemum; chrysanthemum.

No other flower can vie with thee
Chrysanthemum; chrysanthemum.
Such matchless form and symmetry,
Chrysanthemum; chrysanthemum;
If my spring crops should failures be,
I'd stem me down and wait for thee
To bring thy golden shower to me,
Chrysanthemum; chrysanthemum.

Thy opening buds are watched all day,
Chrysanthemum; chrysanthemum;
And some are up all night they say,
Chrysanthemum; chrysanthemum;
They twist and turn thee every way,
Then send thee to the show so gay,
And the judges, other fellows pay,
Chrysanthemum; chrysanthemum.

New York was now toasted, and Mr. Burns, president of the Florist's Club, responded in good style. The West was

then heard from, and Mr. Sanders told of his ramblings and of the surprising things he had seen in the chrysanthemum line, the best of which was the Philadelphia show.

Judge Hoyt of Nassau, New Hampshire, responded to the toast the amateurs. The Boston delegation brought the judge along to guard against any little legal troubles that they might fall into. We are happy to say that his services were not required, as we believe they all left town together the next day. His speech was very well received, and the manner in which the young farmers of New Hampshire are required to hustle in their very early days was surprising, to say the least of it. If the judge can grow the mums as well as he can make an after dinner speech he will soon have a lot of medals to show his friends.

Mr. Norton now responded for the Society of American Florists, after which Secretary Stewart told us how he would like to live in Philadelphia, and made a good address in his own familiar style.

About this time Mr. Harris and Mr. Thorpe, the two chrysanthemum giants, got into an altercation about the merits of their exhibits for the Sailer prize. This was a prize for \$50 offered by Mr. Sailer to be competed for only by Mr. Harris and Mr. Thorpe. It was for the best seedling, and the judge Mr. Robt. Craig, decided in favor of Mr. Harris. Mr. Thorpe kicked; he kicked hard; he said the plant he intended to exhibit had not arrived in time, and he ought to have another trial, as he now had the plant on hand, and would put it up against anything that Harris had or ever would have. Of course Mr. Harris would not stand this kind of talk and he sent it back. Finally it was resolved to have it fought over, new plants were to be produced, and it would then be seen who was entitled to the honors.

With a great flourish Mr. Thorpe produced his latest; a fine plant with three perfect blooms, and then the color, it was b-l-u-e, there was great applause, it was labeled blue without the beard. Then Mr. Harris unveiled his latest; it had three flowers developed, one red, one white, and one blue. Thorpe said it was painted, and kicked it off the platform. Harris told him that his was only paper, and tore the flowers to pieces. There seemed only one way out of the difficulty, and Mr. Craig said the prize would have to go to the best man. Every one agreed to this, and soon a ring was pitched upon the stage, four-ounce gloves were produced, and the contestants retired for a few minutes. Mr. Lonsdale was selected to second Mr. Thorpe, while Mr. Burton was Mr. Harris' best friend, Mr. May was referee, and Mr. Dean held the watch. It was for four rounds. Marquis of Queensbury rules. Everything being ready the contestants appeared. Harris wore a red sash and rosette, while Thorpe wore a blue sash and a blue plume stuck down the back of his neck waded over his head.

In the first round Thorpe got Harris' head in chancery and it looked all up for the Philadelphia man, but he broke away and got in some good body blows. On retiring to their corners they were liberally sponged by their seconds. It was give and take all through the match. Numerous claims of foul were made but not allowed, and finally the fight was declared a draw, and as Mr. Harris had the prize he kept it.

Finally when quiet was restored the speeches and songs were again in order.

Ex-Mayor Smith, who sat on Mr. Craig's right, made the best speech of the evening from a humorous point. It was received with shouts of applause. He said it was not a very nice thing for Mrs. Harris to have beaten every thing that came before her, but he had Mr. Craig's word for it that she did, and that when Mr. Widener beat Mrs. Harris it was a very bad case, and when he was mayor he thought ninety days at least would have been about the right thing for a man who would be so cruel as to beat a woman.

The supper was spread in the lower hall among the chrysanthemums. The company did not sit down until the show was over; in fact it was nearly 11 o'clock, and about 4 A. M. those who still lingered adjourned to the bowling alley, where some wonderful scores were made. The alleys, by the way, are pronounced perfect, but being new no very large scores have been made. There were no set matches at this time, as everybody here had their hands full between the show and their business, but before long there will be some challenges and trials of skill.

H.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By an experienced florist and gardener, well recommended, in private or commercial place. Address J. C. Am. Florist.

SITUATION WANTED—As a head-gardener in some public park, cemetery or private place. Thoroughly competent to take full charge. Address D. C. Am. Florist, Chicago.

SITUATION WANTED—As a florist: a first class plant and rose grower, of 10 or 20 years' experience, to take charge; single, State wages, etc. Address T. F. Florist, 129 North Clark St., Chicago.

SITUATION WANTED—By a first class florist, thoroughly posted in all branches, as foreman of a commercial establishment—a place where roses and cut flowers are made a specialty preferred. Mention salary. PRINCEPS, care Am. Florist.

SITUATION WANTED—As a florist and gardener by a young man with English, American and Canadian experience. Strictly temperate. Roses, carnations, orchids, etc. grown with success. Testimonials all of the best. W. ATTWOOD, care Am. Florist.

WANTED—By December 1st, a reliable and sober night man to fire Hittington boilers, "all on or write R. ASHES, New Durham, N.J.

WANTED—Competent florist. Good place to man of approved ability and habits. Address with terms and references J. T. WILLIAMSON, Prop. La Rose Gardens, Memphis, Tenn.

FOR SALE—Florist business, thoroughly equipped and stocked. Doing a fine business at home and abroad. In a growing Ohio city. Must sell for good reasons. A good investment. Four houses. The real estate for sale or lease to purchaser. Price \$5,000. Address BARCLAY, care Am. Florist.

FOR SALE—A florist establishment, one greenhouse 75x18, and two 75x10 feet each, heated by hot water (weather's); 25 acres of good land, some wood and pasture, plenty fruit, dwelling house, barn and other out-buildings; good well and cistern. All buildings new and in good order. One hour from New York City, and one mile from depot. Price, \$4,800, or will sell the greenhouse property separate for \$2,000. Address P. O. Box 103, Kansas, N.J.

HENRY METTE,
Seed Grower and Merchant,
QUEDLINBURG, GERMANY,
(Established 1787.)

Wholesale Catalogue free on application. Special low prices given for large quantities.

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Every Florist! Every Nurseryman! Every Seedman!

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SEED BAGS

ENVELOPES OF ALL KINDS.

Printing a Specialty.

NEW HAVEN, CONN.

Samples and Prices on Application.

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ORCHIDS.

Still a big lot of Fresh Imported Plants, mostly Cattleyas, on hand.

Also an immense stock of **Well Established Plants,**

best sorts for florists to grow for Cut Flowers, at very low prices. Send for price list.

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Box 322.

South Orange, N. J.

ROSES FOR IMMEDIATE PLANTING

Duchess of Albany.....	\$12 00
Mme. Hoste.....	7 00
La France.....	5 00
Gontiers.....	4 00
Perles.....	4 00
Niphotes.....	4 00
Mermets.....	4 00
Brides.....	4 00
Bon Silences.....	4 00
Gen'l Jack, 2-in. 40 var. 2 in. \$50 00 per 1000.	\$5 00

H. Perpetual, 40 var. 2 in. \$50 00 per 1000.
SEND FOR LIST

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.
Mention American Florist.

ROSES.

Perles, Mermets, Cooks, Brides, & Souv., 2-inch.	Per 100 Per 1000
d'On Am. strong plants, 5-in. pots.....	\$ 10
Hybrid Perpetuals, open ground.....	\$8 & 10 00
Hardy Climbers, open ground.....	\$8 & 10 00
Teas, from open ground.....	\$4 & 6 00
Ampelopsis Verticill., strong plants.....	8 00
Hex Begonias, fine varieties.....	8 00

VERBENAS, strong and healthy.
Per 100 Per 1000
General Collection 2½-inch pots..... \$3 00 \$25 00
Mammoth Collection 2½-inch pots..... 4 00 \$40 00

WOOD BROTHERS,
(Successors to F. C. WOOD & BRO.) FISHKILL, N. Y.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 2 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.

Trade list sent on application.

JACOB SCHULZ,

Lebanonville, Mo.

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Manufacturer of

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NEW HAVEN, CONN.

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ROSE HILL NURSERIES,
New Rochelle, N. Y.

NEW AND RARE PLANTS,

HARDY PLANTS,

Orchids,

Palms,

Ferns.

CUT ORCHIDS AT ALL TIMES.

ORCHIDS.

Unestablished Odontoglossums, Splendid plants, per 100, \$25, with full directions for mounting and cultivating.

ASSORTED ORCHIDS, containing 10 different varieties, per 100, \$25.

BRACKENRIDGE & CO.,

Established 1854. Govanstown, Md.

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Abutilons, assorted.....	Size Pots. Dvt. Hun.
"Eclipse.....	2-in. .50 4.00
Ampelopsis Verticill.....	2½-in. .50 4.00
Anthemis coronaria plena.....	2-in. .50 4.00
Anterium vitata variegatum.....	3-in. .50 4.00
Alamanda Hendersonii.....	3-in. 2.00
Aloysia citrodora (Lemon Verben.)	
Adiantum cuneatum.....	2-in. .50 4.00
".....	3-in. .75 6.00
Asparagus tenuissimus.....	4-in. 1.00 8.00
Cactus Cereus grandiflorus.....	3-in. 1.00 8.00
Phyllocactus latifrons.....	3-in. 1.00
"Stapelia.....	3-in. .75
Cyperus alternifolius.....	4-in. 1.00 8.00
Clerodendron Balfourii.....	4-in. 3.50
Convolvulus Maurandicus.....	2-in. .50 4.00
Euphorbia splendens.....	2½-in. .65 5.00
Jacquinella.....	4-in. 2.50
Geraniums, standard sorts.....	2-in. .50 4.00
Roses The Bride, Rose-scented, true.....	2-in. .50 4.00
Hoya Bella.....	2½-in. .75 5.00
Hibiscus chinensis, strong.....	4-in. 1.50 10.00
Ivy, English and variegated.....	3-in. .75 6.00
.....	2½-in. .75 5.00
Jasminum gracillimum.....	4-in. 2.00
Plumbago capensis.....	4-in. 1.00 8.00
Petunias, double.....	3-in. .75 6.00
Smilax, strong.....	3-in. .50 4.00
Stephanotis floribunda.....	4-in. 2.00
Roses The Bride, Perle, Mermaid.....	
La France, Papa Gontier, M. Joseph Schwartz, queen of Scaries.....	3-in. .65 5.00
Marie Guillot.....	3-in. .75 6.00
Roses Alfred Aubert, Souv. de St. Cier, Mme. Cecil Brunner, Giant des Batailles, Gen. Jacqueminot and The Bride.....	2½-in. .50 4.00
Verbenas, standard kinds.....	2-in. .50 4.00
..... extra strong.....	3-in. .75 6.00

A. GIDDINGS, Danville, Ill.

Mention American Florist.

DUTCH BULBS,

NOW READY.
THE WISCONSIN FLOWER EXCHANGE,
133 Mason Street, MILWAUKEE, WIS.

Toronto.

There was a large attendance at the last meeting of the Toronto Gardeners' and Florists' Club.

The annual election of officers resulted as follows: President, by acclamation, John Chambers; 1st Vice-President, John H. Dunlop; 2nd Vice-President, Thomas Mantion; Secretary, A. Ewing, Assistant Secretary, Herman Simmers; Treasurer, A. Gilchrist; Executive committee, Messrs. Muston, Vair, Tidy, Hill, Reeves, Graham and Laing. Secretary Dunlop's report showed a fair amount in the treasury and a large increase in the membership. The president's address referred to the great success of the chrysanthemum show.

Coeleus Golden Verschaffeltii.

Regarding this coeleus, I would say for the benefit of Mr. Jason B. Roach and others, that I have used it somewhat extensively the past season with perfect success, and with excellent results. I have used it mostly in belt in contrast with the old crimson variety, for which purpose it seems far superior to the Golden Bedder, inasmuch as it grows stronger than the latter, its habit being pretty much identical with the old Verschaffeltii, consequently they harmonize more thoroughly and produce a better general effect. But I think for a solid golden bed of moderate height, for a distinct and special purpose, I should still prefer the Golden Bedder.

H. E. CHITTY.

SURPLUS STOCK.

ALL IN STRONG, HEALTHY CONDITION.

Cyclamen Persicum, 3 and 4 inch . . . 4 and 3c.
Hardy Ivy, 4-inch . . . 6c.
Fuchsia Magnifica, 3-inch . . . 5c.
Ampelopsis Veitchii, 2 and 4-inch . . . 3 and 3c.
Sword Ferns, 2 and 4-inch . . . 3 and 3c.
Chamaerops Excelsa, 2 and 4-inch . . . 3 and 3c.

JOSEPH E. BONSALE, Salem, Ohio.

FOR SALE.

Mario Louise plants, strong. A few hundred Czar, single blue, at \$2.25 per 100.
Several hundred Magnolia grandiflora, from 10 to 14 inches high, 2 years old, \$10.00 per 100.
Also I will sell or take other stock in exchange for a large lot of Eranthis Ravenae, Eulalia Zehriana and other variegated grasses. Prices on application.

M. TRITSCHLER, Nashville, Tenn.

C. H. JOOSTEN,
3 Counties Slip, NEW YORK,

—IMPORTER OF—

FORCING BULBS.
IMPORTED HARDY ROSES,
Strong Clematis, Etc., Etc.

Mention American Florist.

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:

25,000 Dwarf budded roses in sorts.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Pontica in sorts.
2,000 Clematis, extra strong plants.
Trees, Shrubs, Evergreens, Conifers, Paeonias and other herbaceous plants.

PLANTS FOR FORCING AND DECORATING.

Address **P. OUWERKERK,**
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BEGONIA TUBERS AND SEEDS.
The best quality in Europe.

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Wholesale list and pamphlet with cultural directions mailed gratis on application. Send your orders promptly to **JOHN R. BOX,**
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KANT SUKKREY SEED WAREHOUSE.

WE WANT YOUR ORDERS NOW
—FOR—

Chinese Narcissus,

AURATUM, LONGIFLORUM, ALBUM, RUBRUM,
KRAMERI, ELEGANS, AND OTHER
JAPANESE BULBS.

CALIFORNIA LILY BULBS.

Australian Palm Seeds.

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JAPAN PALM, SHRUB AND FLOWER SEEDS.

Our new Wholesale list of above, and of Trees,
Ornamental Shrubs, Plants, Conifers, etc., now
ready. SEND FOR IT.

H. H. BERGER & CO.,

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READY · THIS · WEEK

VAUGHAN'S LILY OF THE VALLEY PIPS ARE READY,
don't forget it now if you expect to force for Christmas. Spirea,
Chinese Narcissus, Bouquet Green, scarce, but ours still "gets
there", Holly, Pearl Tuberoses, Pampas Plumes, L. Auratum, L. Rubrum, M. P. Forcing
Roses (as per adv. Nov. 20) ready now. We have Baroness and Diesbach @ \$14
—stock is XXX; Gladioli Colvilli alba, Cane Stakes. Sunflower Seed, (100 lbs.
\$3.50). Write for list of Imported Roses, also of Palms and Decorative
Plants. We are **HEADQUARTERS on Holiday Decorations.** We
not only advertise this stock, but **ACTUALLY HAVE**
IT most of the time.

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GREEN and HOLLY.

Wreathing and Holly Wreaths.

Valley Pips,
SELECTED STRAIN.TUBEROSES, fine bulbs. Low prices
for choice stock.

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6 and 8 North Clark Street,
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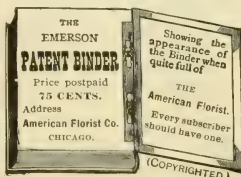
DAHLIAS, named varieties, single and
double, per 100, \$8.00.

TUBEROSES Pearl, per 1000, \$10.00.

GREVILLEA ROBUSTA, 3-inch, per
100, \$8.00.

AZALEAS, grand stuff, write for prices.

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LARGEST GROWERS OF

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CISSUS, SPIRÆA, LILIES
OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Whole-
sale Importers should write us for prices.Our new Bulb Catalogue is now ready.
Will be mailed free on application.

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GARDEN SEEDS

Plants, Bulbs, and
Requisites. They are the
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TRADE LIST issued quar-
terly, mailed free to the
trade only.

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Philadelphia

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giving a complete and accurate list of the
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Price, \$2.00.

AMERICAN FLORIST CO.,

54 La Salle Street, CHICAGO.

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20 West 24th Street,
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PETER HENDERSON,	-	Jersey City, N. J.
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S. C. NASH,	-	Clifton, N. J.
JOHN REID,	-	Jersey City, "
A. C. TUCKER,	-	Nyack, N. Y.
WEIGAND BROTHERS,		West Hoboken, N. J.

And many others.

ALL THE CHOICEST VARIETIES OF
ROSES, CHRYSANTHEMUMS, ORCHIDS, LILAC,
LILY OF THE VALLEY, TULIPS, ETC., ETC.

New York.

Trade still continues very quiet.

Chrysanthemums are not so plentiful and the demand for roses is increasing. Carnations and violets are very plentiful.

Klunder has resumed business at No. 5 West 27th St.

John I. Raynor, for many years with W. S. Allen, has started in the wholesale business at 11 West 28th St., in partnership with Alex S. Burns, the well-known 6th avenue florist.

Herman Kuhn, of 896 6th Ave., has purchased greenhouses at Astoria, L. I., and will make a specialty of growing fine palms.

George Irlam, otherwise known as "Bones," will shortly open an office down town where he will buy and sell anything in the florist line on commission.

"Johnny" Weir of Brooklyn is now known as the Brooklyn sharper. When he can't make a good bargain legitimately, he generally offers to match coins. The feelings of the commission men can be better imagined than described since they have discovered he has been using a double headed coin. Johnny continues to laugh at the joke.

W. S. Lee has sold out his store in Union Square to Davey & Ezekel, and has accepted a position with Thorley.

The Klunder Co. had a very unique decoration at Delmonico's at the Jewelers dinner. There were six tables decorated entirely with vegetables. JOHN YOUNG.

Chicago.

Mr. Harry Bayersdorfer of H. Bayersdorfer & Co., Philadelphia, was in the city last week.

O. W. Frese, formerly of Frese & Gresenz, has opened a cut flower commission store at 66 Wabash avenue.

Mr. H. B. Beatty, Oil City, Pa., the secretary of the Florists' Protective Association, was in the city last week. He is always a welcome visitor.

Mr. P. D. Armour, the wealthy packer, is reported to be much interested in orchids and is building a splendid range of greenhouses, with a view to making a collection of these plants.

Charles Hartwig tried a bunch of Tidal Wave carnations this year and can't say enough in praise of this variety. He has 500 plants and says they beat any carnation he ever had for the production of large numbers of fine blooms which sell quickly at a good price. He cuts the flowers with long stems, sacrificing many buds, but even with the heavy cutting the bed is continually a mass of bloom. Mr. Hartwig is also very favorably impressed with the new rose Duchess of Albany, and will have a house of that variety next year.

Now Ready, for Cash.

Begonia Bruanti alba, best white,	Per 100
winter bloomers, 2½-inch,	\$ 6.00
same, 3 inch,	10.00
Begonia Metallica, 2½-inch,	6.00
" " 3½-inch,	12.00
" Semperflorens rosea, 2½ in.	6.00
" " 4-in.	12.00
Abutilon Eclipse, 2½-inch,	5.00
Manettia bicolor, 2½-inch,	7.00
" " 3-inch,	11.00
Agapanthus, 3½ and 4-inch,	8.00

Large thrifty stock in fine shape, ready to ship.

Lane's Mountain View Greenhouses,
RUTLAND, VT.

"CREAM OF THE SHOWS."

A collection of the best 50 Chrysanthemums, selected by us from the New York market, the Philadelphia, Indianapolis and Chicago shows.

50 Plants March 1 for \$10. Best 25 for \$6. Orders should be booked now.

VAUGHAN'S "FLORISTS SET" FOR 1891.

10 New Seedlings of 1890. 10 Plants March 1 for \$5.

AMERICAN CHRYSANTHEMUM SEED.

A strain of Double Japanese which has produced 95 per cent double flowers. Out of one lot of 25 plants from this strain, six were sold the past month for \$200.00.

Price per trade packet, \$1.50.

J. C. VAUGHAN, GREENHOUSES,
WESTERN SPRINGS, CHICAGO.

John Laing & Sons,

SEED, PLANT AND BULB MERCHANTS,
ROSE, FRUIT TREE AND VINE GROWERS,
FOREST HILL, LONDON, ENGLAND, S. E.

SPECIALTIES:

Tuberous Begonias, Caladiums, Orchids, Chrysanthemums and Gloxinias, Roses, Fruit Trees and Vines, Genuine Seeds and Bulbs, Greenhouse and Stove Plants, Clivias (Imantophyllums), Etc., Florists' Flowers, Etc.

Descriptive Catalogues Free, and all Information on Application.

Mention American Florist.

JAPANESE PLANTS.

Trees, Shrubs, Bulbs, Seeds, Etc.
offered at low prices by

FELIX GONZALEZ & CO.

Direct Importers and Exporters,
303 to 312 Wayne and Crescent Ave.,
SAN FRANCISCO, CAL.

Wholesale Catalogue mailed free on application.

SEND FOR A COPY OF OUR NEW

TRADE DIRECTORY

Price, \$2.00.

AMERICAN FLORIST CO., Chicago.

C. RAVIER, Florist, MOBILE, ALA.,

Has on hand an extra fine lot of
AZALEAS, CAMELLIAS, MAGNOLIA GRANDIFLORA,
and other Sub-Tropical plants grown out doors,
and sold cheap. Write for prices.

FOR SALE.

THE CUTS

USED IN ILLUSTRATING THIS PAPER.

Write for prices on any which you have seen in previous issues and would like.

AMERICAN FLORIST CO.

CHICAGO.

We can now furnish in any quantity desired Debit and Credit Tickets of which we give below samples reduced one-half in size.

DEBIT.		
Jan'y 10 1889		
John Smith		
100	Verbena	3 -
50	Geranium	4 -
		7 -

CREDIT.		
Jan'y 10 1889		
Richard Roe		
500	4 inch pots	5 -
175	2 1/2 "	5 -
		10 -

The debits are printed in black and the credits in red, so they can be readily distinguished. They are put up in blocks of 100 of each, placed back to back; thus but one block will have to be carried. By means of these tickets an entry of a sale or receipt of goods can be made anywhere—in the house or in the field—keeper can readily work. With this simple and easy means of keeping a record of your business you can afford to neglect no important matter.

Price of Tickets, postpaid, 100, 20c.; 200, 35c.; 300, 50c.; 500, 75c.; 1000, \$1.40.

AMERICAN FLORIST CO.,
54 La Salle Street, CHICAGO

CHRYSANTHEMUMS For Exhibition.

So many expressed a wish for a duplicate set of the plants exhibited by me at Chicago and Indianapolis recently, I have prepared a list giving the numbers they were under as well as the corresponding names, together with the price by the set or 100, which list will be mailed on application to any who desire it.

M. A. HUNT,
TERRE HAUTE, IND.

STOCK PLANTS OF New Chrysanthemums for 1890

Flora McDonald.

(Sent out by us last spring.)

Hill & Co.'s	Set.
Pitcher & Manda's	Sets.
Spaulding's	Set.
Waterer's	Set.
Hallock's	Set.
Hollis's	Set.
Fewkes & Son's	Set.
Allen's	Set.

Also all the best older sorts. Send for Price List, ready about Dec. 1.

NATHAN SMITH & SON, 167 W. Wabash St., Adrian, Mich.

VERBENAS.

20 vars. new seedlings. Mammoth strain, per 100 \$3; per 1000 \$25.

Rooted Cuttings of same, 100 \$1; 1000 \$9. Fine stock Heliotrope, 2½ in. \$3 per 100. Double Fringed Petunias, 12 vars. 2½ in. \$4.00 per 100.

Adiantum Cuneatum, Decorum and Gracillimum, 5-inch, strong, \$15 per 100. Primroses, double, per 100 \$12.00. "single, per 100 \$5.00.

Obeonica, per 100 \$5.00.

Geraniums—latest Novelties.

Latania borbonica, 5-in. \$4.00, 4-in. \$3.00 per dozen.

Miscellaneous stock of all kinds.

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.

Verbenas Now Ready ABSOLUTELY FREE FROM DISEASE.

	Per 100	Per 1000
Mammoth, strong,	\$4.00	\$35.00
General Collection,	3.00	25.00
Rooted Cuttings, Mammoth,	2.25	10.00
" General Collection,	1.00	8.00

JACK ROSES.

3½-inch pots, \$5 per hundred; \$7 per thousand.

Address **J. G. Burrow,**
FRESHKILL, N. Y.

CARNATIONS.

	Strong 4-in.	Strong 5-in.
	Per 100	Per 100
Hinze's White,	\$ 6.00	\$9.00
Chester Pride,	6.00	9.00
Wm. Swayne,	6.00	9.00
Century,	7.00	10.00
Geraniums, choice varieties, 3-inch,	3.50	
Asparagus Tenuissimus, 2½-inch,	4.00	

Begonias, large stock, all sizes and vars.

Address **N. S. GRIFFITH,**
JACKSON CO. INDEPENDENCE, MO.
(Independence is well located for shipping, being 8 miles east of Kansas City.)

Rooted Cuttings of Carnations

of all the Standard Varieties ready Dec. 1st. Having added another 100 foot house to our Carnation Department, hope to be able to furnish any quantity desired, on short notice. Orders for future delivery at 10 per cent off from catalogue price.

JOS. RENARD, Unionville, Chester Co., Pa.

HILL'S SET —OF— CHRYSANTHEMUMS FOR 1891.

There are so many "pretty good" seedlings in the field this year that it is the easiest matter in the world to make up a "set" and give them descriptions that prove most delightful reading; but what the florist wants for '91 is a set, not "pretty good!" but absolutely **FIRST RATE**, and with a record behind them that will warrant them premium winners at the next exhibitions; this is what we claim for our new set which cost us over \$1,000, but we got the best!! Read the records of the shows.

WIDENER. EMLEN, MRS. SARGENT, JNO. LANE, MOLLY BAWN AND OTHERS, ALL PRIZE WINNERS WERE DISTRIBUTED BY US LAST YEAR; THIS YEAR'S ARE PAR EXCELLENCE.

1. FLORA HILL, finest white in existence. Special certificate at Indianapolis.
2. SUGAR LOAF, First Premium at Cincinnati.
3. MRS. ISAAC D. SAILOR, Sailor Prize at Philadelphia.
4. BLACK BEAUTY, Blanc Prize at Philadelphia.
5. JNO. GOODE, the finest cut flower variety we have yet seen.
6. FRANK THOMSON, Certificate of Merit at Indianapolis.
7. MRS. J. G. WHILLDIN, Whilldin Prize at Philadelphia.
8. EMILY DORNER, First Class Certificate at Indianapolis.
9. R. MAITRE, In the set of six seedlings which won the \$100 at Indianapolis.
10. PHILIP BREITMEYER, Splendid yellow of Lincoln type.
11. C. W. DEPAUW, Fluffy pearl pink.
12. ELMER D. SMITH, Immense incurved scarlet maroon.

ALSO A MOST COMPLETE ASSORTMENT OF THE VERY FINEST CHRYSANTHEMUMS IN ALL THE NEWER SORTS AND THE BEST OF THE STANDARD VARIETIES.

Send for our Trade List containing full descriptions and prices.

E. G. HILL & CO., RICHMOND, IND.

ROOTED CUTTINGS.

—Send for List. The prices and quality are sure to please.—

CARNATIONS—All the leading sorts and novelties. Eight 100 foot houses. COLEUS—Twenty-four varieties. A sample one of each, labeled, mailed for 25 cts. Geraniums, Alternanthera, and other items of interest. ALTERNANTHERA—Red and yellow, from 2½ in. pots, at \$3 per 100; \$25 per 1000. GERANIUMS—A mixed lot containing all of last season's novelties, 2½ inch pots, at \$4.00 per 100; \$35.00 per 1000. A rare bargain.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

Lizzie McGowan.

I beg to announce to the trade that I shall be prepared to distribute this magnificent **NEW WHITE CARNATION** on the 10th of February, 1891, and that the price will be \$12 per 100, and \$100 per 1000, for strong well rooted plants from the cutting bench. Favorable special rates will be allowed on large quantities. Cash or its equivalent should accompany orders from unknown correspondents.

Send for descriptive circular of this and other sorts. Parties wishing a few flowers of Lizzie McGowan can have them by enclosing twenty-five cents in stamps.

ADDRESS **H. E. CHITTY, PATERSON, N. J.**

CUT FLOWERS OF CARNATIONS.

I am ready to make contract for a regular supply of Carnation florets the coming winter. We have a splendid assortment of Fancy colors—Yellow, Scarlet, Carmine, Crimson, White, Pink and Variegated; and can send them mostly on long stems.

CHAS. T. STARR, Avondale, Chester Co., Pa.

Rooted Cuttings for Cash Buyers.

COLEUS.

I can supply ten best varieties, in any quantity.

Also Geraniums and Alternantheras.

SEND FOR PRICE LIST.

S. B. FIELD, Roselle, N. J.

GLADIOLUS BULBS.

Prevailing Colors, Pink and White.

Over 100 named varieties, and a number of choice seedlings, all mixed together. This collection has never been culled, and it has received a number of first premiums. In fact it has never failed to do so in any exhibition. To avoid retaining the best size, offer them this fall at \$10.00 per 100 for first size; second size, \$7.50. A quantity of small bulbs and bulbets also bargain.

M. CRAWFORD, Cuyahoga Falls, Ohio.

A Word from England.

Mr. James H. Laing of John Laing & Son, writes, tendering thanks for courtesies extended to him by the members of the S. A. F. during his recent visit to America, and adds:

"The Boston conference astonished me. The show was beautiful, and surpassed my most sanguine expectations. The conferences were exceedingly well carried out and equally well attended. Then passing to the pleasure part, I think all will agree that we were entertained right royally by our hosts of some of the finest private gardening establishments in the States. In fact the convention week will always be regarded by me as one of the brightest spots in my life. Most noticeable was the prevailing fraternal feeling displayed, each trying to insure the success of the convention. We should all say every success to the Boston Gardeners' and Florists' Club for their generosity and hospitality during our sojourn in their city. I was surprised to find America so advanced in horticultural matters, and I feel certain with the aid of so many intelligent and able horticulturists that she will run a close race with the old country."

Diseased Callas.

In regard to the query regarding callas rotting off at the neck of the bulb, we have been troubled the same way for three years, but have not succeeded in learning the cause. The most healthy looking plant will drop over in a few days after being attacked. When you tip the plant out of the pot you find all the roots have turned black as though they had been frozen. However, the small bulbils at the side keep growing just as if nothing had happened. I hope some one will solve the mystery and give us a remedy for the disease. C. B. W.

I HAVE ON HAND

2000 SEEDLINGS of the following ready Dec. 1 for 3-inch pots, now in 2-inch pots:
200 Lobelia Compakta Crystal Palace.
50 Cineraria hybrida grandiflora.
500 Bellis perennis (Snowball daisy).
500 Smilax, strong plants.
50 Primula sinensis fimbriata.
Ready Dec. 15 to 20.
200 Cineraria hybrida grandiflora.
200 Lantanas.

Price \$3.00 per 100, 25 at hundred rate.
These plants were started in moderate heat, grown in a temperature of 40 to 60 degrees day and night, and the seed was the best procurable.

W. T. STEPHENSON, Petersburg, Ill.
Mention American Florist.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
58 N. 4th Street,
PHILADELPHIA, PA.

CATALOGUES. FLORISTS
AND SEEDSMEN
write to
The Aldine Printing Works, Cincinnati, O.,
for samples and prices before ordering
elsewhere.

[Mention The American Florist.]

Order Now

A Copy of our New

TRADE DIRECTORY

PRICE, \$2.00.

AMERICAN FLORIST CO., 54 La Salle St., Chicago.

WE HAVE RECEIVED IN SPLENDID CONDITION, FRESH FROM THE FORESTS

of the Sunny South,
LONG NEEDLE PINES,
MAGNOLIA FOLIAGE,
WILD SMILAX,
DAGGER FERNS,
PALM LEAVES,
GREY MOSS,
SHEET MOSS,
LAUREL,
And many other Novelties.

These are all beautiful in Decorations, and sellers across the counter, and are our "GET THERE" and "GET OUT OF THERE" Brand, which means that they reach you quickly, and leave you quicker.

— THEY WILL SELL. —

Just what you want. Caldwell, the Woodsman's DEVID Brand of Mistletoe" to arrive Dec. 15th. Send for Illustrated Catalogue—the most interesting little work ever written—entitled A Mail from the Woods.

De COU & CO.,

St. Paul, Minnesota.

Mention American Florist.

CHRISTMAS GREEN For the WEST and NORTHWEST

I will receive about the 1st of December an immense consignment of Long Needle Pines, Palm Leaves and Palm Crowns, Sabals and chamepops, all sizes. Laurel and Magnolia Foliage, Wild Smilax, Ferns, Grey Moss, Sheet Moss, Mistletoe, and all southern Evergreens. Packed by Caldwell, the Woodsman.

FRESH FROM THE FORESTS.

Having the finest shipping facilities, 4 roads, 20 passenger trains a day, I can reach all points in the West and Northwest with dispatch.

SPEED MY SPECIALTY.

When you want them in a hurry wire me. Send for Illustrated Catalogue and Price List. Also a fine lot of beautiful specimen Balsam Fir and White Spruce, Xmas Trees 12 to 15 feet long, \$1.25 to \$2.50 each. Also see other adv.

JOSEPH BANCROFT,
CEDAR FALLS, IOWA.

Mention American Florist.



LET my ad. run out in Florist; forgot it. Makes me lonely, so here I am to stay. You know I do printing and make good Catalogues for Florists? Good, clean, bright Catalogues. Write about 'em.

Pansy Plants

From first class seed, \$4.00 per 1000,
50 cents per 100.

JOHN J. CONNELLY,

BEYN MAWR, PA.



ALL SIZES OF SINGLE AND DOUBLE THICK

GLASS FOR GREENHOUSES.

ALL GLAZIERS' SUPPLIES.

Write for Latest Prices.
Mention American Florist.

CYPRESS GREENHOUSE MATERIAL

JOHN L. DIEZ & CO.
530 North Halsted Street.
CHICAGO, ILL.

HOT BED AND VENTILATING SASH

Mention American Florist.

FLORISTS' HAIL ASSOCIATION

O.B. A.M. BIERZ, C.A.
Insures Greenhouses against damage by hail. For full information, address

JOHN G. ESLER, Sec'y, Saddle River N. J.

FLORAL DESIGNS.

The help for Cut Flower workers.
162 pages, colored plates. Edition nearly exhausted; speak quick.
Address

J. HORACE MCFARLAND,
Box 655, HARRISBURG, PA.

STANDARD POTS

made by the latest improved machinery, are better and cheaper than those made by the old way. Price, P.O.B. cars here, free of charge:

2 1/2-in.	per 100,	\$3.50	7-in.	per 100,	\$3.50
3 1/2-in.	"	3.00	8-in.	"	3.00
4 1/2-in.	"	4.00	9-in.	"	3.00
5 1/2-in.	"	5.00	10-in.	"	3.00
6 1/2-in.	"	7.25	11-in.	"	12.00
7 1/2-in.	"	9.00	12-in.	"	20.00
8 1/2-in.	"	1.38	14-in.	"	50.00
9 1/2-in.	"	2.39	16-in.	"	75.00

All pots shipped at fifth-class frt. rates. Terms cash.
HILFINGER BROS., Fort Edward, N. Y.

STAR FLOWER POTS

On and after November 1 these prices will take effect on the following sizes. Terms cash with order.

Size.	Price of 1000.	No. in crate.	Price per crate.
1 1/4-in	\$2.25	2000	\$4.50
2 "	2.70	1500	4.00
2 1/2 "	3.00	1200	3.60
2 3/4 "	3.20	1000	3.20
3 "	4.20	720	3.00
3 1/2 "	6.30	575	3.60
4 "	7.30	407	3.00

We want your trade. We guarantee satisfaction. Shipping facilities unequalled
SIPPLE, DOPPEL & CO.,
SYRACUSE, N. Y.

S. A. F. Attention

Our defeated competitor in "Standard" Flower Pot contest at the Boston meeting, for the **Certificate of Highest Merit**, reflects on the members of the Committee of Award as not being impartial in their decision. The members of that Committee were M. A. Hunt, Terre Haute, Ind., Chas. Henderson, of the firm of Peter Henderson & Co., New York, and Wm. K. Harris, Philadelphia, Pa. No fairer or more competent committee could be selected from the members of the S. A. F., and as far as diligent inquiry reveals, their decision meets with the approval of everyone excepting A. H. Hews & Co.

The official programme gave notice that the Certificate would be awarded to the display "which most nearly approaches the 'Standard,' such display shall consist of not less than one dozen of each size, made from working molds and not turned down." The sheet with drawings of the pots (which was gotten up by A. H. Hews & Co., under the instructions of the Committee of S. A. F. and sent to the different potters for their guidance) shows 17 sizes, and the number we exhibited; one dozen of each, as required. In regard to the statement published by A. H. Hews & Co., that "very many" of our pots were **"either ground, filed, turned or sand-papered to size,"** we wish to distinctly say that this is **FALSE**. The pots we exhibited for the Certificate were made exactly as we make them for our customers, and were not altered in any way whatever; in fact it is impossible to alter the inside measurement after a pot is once made; a mold that will make one pot correct will make any number (until the mold wears out) exactly the same. In reference to the absurd "propositions" of Messrs. A. H. Hews & Co., we decline to be a party to the proposed exhibitions as it would be a gross insult to the honorable gentlemen of the committee, who, after giving their time and labor to the society, are at least entitled to common courtesy.

THE WHILLDIN POTTERY CO.,

713 & 715 Wharton St., PHILADELPHIA, PA.

S. A. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

Many of our friends agreeing with us that the award on Standard Pots at our late Exhibition was an unjust one, we shall use the advertising columns of the AMERICAN FLORIST to state our side of the question.

We asked the Executive Committee to give us an impartial committee of award. The following propositions should convince anyone whether **WE FEEL** that we have had such a Committee.

The following is the text of the matter in question, taken from the official programme:

"Manufacturers of FLOWER POTS are notified that a Certificate of highest merit will be awarded to that display of Pots shown in this exhibition, which most nearly approaches the Standard. Such displays shall consist of not less than one dozen of each size, made from working molds and not turned down."

One member of the Committee of Award said that we were not entitled to any award because we exhibited but fifteen sizes, while others exhibited seventeen, and that seventeen cuts were represented on a white sheet of Standard Pots. We fail to see that the award was offered for any specific number of sizes, but that twelve of each size should be presented. **A MUCH MORE IMPORTANT PART OF THE COMMITTEE'S ANNOUNCEMENT** was that the pots should be **MADE FROM WORKING MOLDS AND NOT TURNED DOWN**. We do not hesitate to make this public statement that the Flower Pots to which was awarded the Certificate of highest merit were **VERY MANY** of them **EITHER GROUND, FILED, TURNED or SAND-PAPERED** to size, and for that reason alone were not entitled even to a measurement by the Committee of Award.

WE WISH TO MAKE TWO PROPOSITIONS.

First. We will put up **\$1,000 in Cash** and submit the same pots exhibited at the late Exhibition against the pots exhibited by our competitor, and leave it to an impartial committee of three, and if our pots do not come the nearest to the requirements, we will present the \$1,000 to the fund of the Society of American Florists.

Second. We will put up **\$2,000 in Cash** and produce 500 pots of each size from 1 $\frac{3}{4}$ -inch to 7-inch inclusive, and 250 pots each from 8-inch to 12-inch inclusive, making 7,250 pieces, made from the same moulds in which the pots we exhibited were made, and all shall be of the proper thickness in all respects, against an equal number of pots made from the same moulds that produced the pots receiving the award, and if an impartial committee do not give us the award we will present the money and the pots to the Society of American Florists for an experiment station. And if we are allowed to choose one of the committee of three, we will select our honorable Treasurer Mr. M. A. Hunt, of Terre Haute, Ind.

A. H. HEWS & CO., North Cambridge, Mass.

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HARTFORD, CONN.—At a recent wedding the floral decorations were entirely of chrysanthemums. The bride carried a bunch of white chrysanthemums and the bridesmaids bunches of yellow ones.

UNIONVILLE, Pa.—Geo. W. Love has added a new house 20x85 for carnations.

TO CANADIAN FLORISTS.

NEW CHRISTMAS EVERGREENS. We will receive about Dec. 8 from away down in Alabama a choice selection of

SOUTHERN EVERGREENS,
Long Needle Pines, Wild Smilax, Palm Leaves, Grey Moss, Magnolia Foliage, etc., etc.
Send for Illustrated Catalogue.

STEELE BROS. CO., Toronto, Canada.

CHRISTMAS TREES

DECORATIVE GOODS, ETC.

Personally selected, extra fine Balsam and Spruce, f. o. b. here:
4 to 5 ft. 10c, 5 to 6 ft. 16c, 6 to 7 ft. 22c, 7 to 8 ft. 28c, 8 to 9 ft. 34c, 9 to 10 ft. 40c, 10 to 11 ft. 46c, 11 to 12 ft. 52c, 12 to 13 ft. 58c, 13 to 14 ft. 64c, 14 to 15 ft. 70c, 15 to 16 ft. 76c, 16 to 17 ft. 82c, 17 to 18 ft. 88c, 18 to 19 ft. 94c, 19 to 20 ft. 100c.
Bouquet Green, \$5.00 per 100 lbs.
Arbor Vite Trimming, \$1.50 per bbl.; \$ bbls. \$7.00.
Mixed Trimmings, \$1.00 per bbl.; \$ bbls. \$4.00.
Fine Rotted Pine, \$1.50 per bbl.; \$ bbls. \$4.00.
Moss, \$1.00 per bale; \$ bales \$5.00.
1 percent off on all orders received before Nov. 25.
Best of shipping facilities, four through roads.
Send for Telegraph Code. Write or wire for estimates before you buy. Bank references required.

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General Wholesale Agent for CALDWELL, the Woodsman, Evergreen, Ala.
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4 to 6 feet.....	\$ 3.50	\$ 6.00	\$10.00
6 to 8 feet.....	6.50	11.00	20.00
8 to 10 feet.....	10.00	16.00	30.00
10 to 12 feet.....	15.00	25.00	45.00
12 to 14 feet.....	20.00	35.00	60.00

The two largest sizes are of Balsam Fir; fine selected specimens.

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TERMS OF PAYMENT: At least one-half cash with order; balance 30 days approved credit. All bills to be paid not later than January 1st 1891. No attention will be paid to orders not complying with above terms.

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For PENNSYLVANIA FLORISTS

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WANTS TO GET TO 'EM ALL.

I have, after a careful examination and test of the goods, consented, and will receive about DECEMBER 5th a large Shipment of Long Needle Pines, Palm Leaves and Crowns, Magnolia Foliage, Wild Smilax, Gray Moss, Sheet Moss, and Mistletoe cut FRESH from the FORESTS.

I can commend them to the trade as being of undoubted merit, carefully selected and packed. Prices low, while shipper's enterprise in placing them within quick and easy reach is well worthy of your support and commendation.

Send for Illustrated Catalogue "A Walk from the Woods," which I can commend to your notice as a pointer on catalogue writing.

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4 in. diam. round.....	" .08
5 in. diam. round.....	" .10

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Society of American Florists.

M. H. MORTON, Boston, Mass., president; JOHN CAMERON, Toronto, Ont., vice-president; WM. J. STEWART, St. Paul, Minn., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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Insures greenhouses against damage by hail.
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Gives information to members regarding the financial standing and business integrity of those in the trade.
H. B. BEATTY, sec'y, Oil City, Pa.

American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LANSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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IN THE last three issues of the FLORIST appeared reports of chrysanthemum shows and displays to the number of fifty-six, in as many different cities and towns.

IN DETERMINING the value of an advertising medium the question of circulation is not the only thing to be considered. Do the people who receive the paper read it? If not, then it is worthless as a medium.

New York.

The exhibition at Madison Square Garden was opened November 24 by and under the sole control of Messrs. Pitcher & Manila, United States Nurseries, Short Hills, N. J., to whom great praise is due for the energy and heavy expense attending such a monster undertaking. It took nearly 200 four-horse loads of plants etc. to make this exhibition, and from the immense size of the building this amount, though very large, looks to the casual observer almost lost.

On entering the garden from the main entrance a very large bed of chrysanthemums in the form of a triangle first strikes the eye. These are composed of bush plants of various sorts and sizes, on either side of which are arranged very large beds (some of a rectangular shape) of ornamental foliage plants composed of a very large assortment from 5 or 6-inch pots up to 15 or 18 inches. Conspicuous among them are some very fine dracaenas, crotons, marantas, etc. Directly in the rear of the first bed is a large circle filled entirely with Pandanus Veitchii arranged in the form of a pyramid, giving it a very bold effect. Next follow two long beds rounded at one end and running to a point at the other, filled with red, yellow, pink and white chrysanthemums. Conspicuous among the pinks is the beautiful late variety John Lane. Inside of these again is a very large bed in the form of a crescent, filled with fine palms and other foliage plants, containing many choice and valuable plants. On the outside of this again are two long beds somewhat resembling the blade of a scythe, filled with fine tree ferns and light colored foliage plants. Inside of the crescent is a large rustic bower-like bed in which are situated a dozen young ladies selling cut flowers, at which they are doing a good business. Directly in front of this and running across the entire auditorium is situated the greatest attraction of the whole show, namely, an immense collection of cypripediums, numbering 155 distinct varieties, the largest collection probably ever exhibited in the world at any one show. The actual number of blooms runs away up into many thousands, each variety being represented by large masses. Conspicuous among them are the lovely Spicerianums in large force, also Harrisianum and a host of others too numerous to mention. At either end of these are fine banks of anthuriums, which with their bright colors and fantastic forms give a very pleasing effect. In the rear of these and the cypripediums is a massive bank of trees of various sorts, the branches of which are all hung with many choice orchids in full bloom, the most effective of which are oncidiums, Vanda cœrulea, Odontoglossum crispum, Dendrobium chrysanthum with its bright golden flowers, and lœlids in variety. Among the

cypripediums are arranged some fine specimens and numerous smaller plants of Adiantum Farleyense, giving the whole a graceful finish. At the rear of these and forming a background arranged in a massive bank, are choice ferns and other foliage plants. Behind these again are arranged three massive groups of chrysanthemums, yellow on either side with the beautiful crimson Cullingfordii in the center.

Next to these are arranged two large rooms representing a reception or drawing room which is beautifully decorated with choice drapery covered with aspidragus, smilax, etc., and in the center stands a case of rare jewelry representing orchids, set with diamonds. Chrysanthemums are also represented in this line, but they look a little too heavy for ordinary mortals to carry around, on the contrary those representing the more fantastic orchids are very graceful and pretty. The room is 20x25 fully equipped with chairs and other suitable furniture to represent such a room. The other room is fitted up as a dining room, but it has altogether too much of a crowded appearance to commend itself to the public. Even the orchid flowers were so crowded through the center of the table that no one sitting on one side could see who was sitting opposite. Many beautiful orchids were used for this purpose, and evidently the designer thought the more that could be crowded in the better, but he entirely destroyed the desired effect. On the other table (there are two in this room, a breakfast and dinner table), decorated for a breakfast, many of the cypripediums in the plateaus are placed directly upside down and all laying out on the table as favors, giving the whole a very ungraceful and to many a flower lover it gave a positively painful impression. One lady remarking that it looked as if the guest had sat down to a very early breakfast after a very late dinner, and without having retired at all during the night. The silver and glassware was all of a beautiful design on both tables, and with the jewelry was furnished by Mr. Mason, of 246 Fifth Avenue, New York City. Surrounding these rooms and in a measure dividing them, are fine evergreens, containing many handsome specimens of Bays, both standards and pyramids. The lovely Araucaria Excelsa was also in strong force, in addition to bananas in fruit and many other choice things. Interspersed around the margin are chrysanthemums and other flowering plants representing an herbaceous border. At the extreme end of the garden and behind the rooms is placed a grand old plant of Livistonia (Latania) chinensis fully 30 feet high. This plant weighed over three tons. Around the entire hall are arranged tables of plants and flowers, or banks of same, on one of which are placed some very choice cut orchid blooms and some

exceptionally fine plants, also among the latter are particularly noticeable a fine specimen of *Lælia Arnoldiana* with 16 spikes of bloom, and a *Vanda cerulea* with five. On another table is placed a very choice collection of cypripediums (in fact the cream of the whole), noticeably the beautiful leucorhodon, an exceedingly choice variety, Veitchii, Insigne, Clautinii, and Maxima, Hookera, down to the graceful little vexillarium, all in perfect health and flowering very freely. On another table a fine collection of medicinal plants were placed, among which the beautiful little orange trees in full fruit attracted many of the visitors.

Following on around the hall are tables of fine single flowered chrysanthemums in small pots (4 and 5 inches). Cut blooms of the same were still very fine, others again contained fine banks of bouvardia, lily of the valley, Roman hyacinths, pansies, heliotrope, cyclamen, *Hernandia* lilies, etc. A very fine batch of *Erica* hyemalis, and another of fine seedling carnations in assorted colors attracted a large crowd of admirers. Those who missed this show lost a truly great feature in the horticultural world, and one of which Messrs. Fitcher and Manda may well feel proud. For, though so late in the season, the chrysanthemums are still very creditable, many of the blooms in fact are very fine. We trust the firm will be well repaid for all the labor and expense the undertaking cost. To Mr. Manda, the junior partner of the firm, is largely due the credit of carrying out the details. N.

Philadelphia Show Notes.

How large will the plants be next year? And how many flowers on each?

The inclination is toward rather too many pink shades.

A new grower won first for 25 cut blooms in a competition of six. The last three would have won easily three years ago.

Nearly thirty seedlings of merit; 136 all told.

It was said that Davy Bearn admitted the skeleton frames as an educator, a sort of primer as it were.

The fifty blooms which took first prize were of the following varieties: J. M. Pigmy, Pactolas, Mrs. J. S. Fogg, Mme. Baco, Mrs. A. Carnegie, Mrs. B. Harrison, Martha Harding, Mandus, Nineveh, Coronet, L. B. Bird, J. M. Hughes, Grandiflorum, Mrs. T. A. Edison, St. Sophia, Charity, E. G. Hill, Reward, H. Cannell, Ada Spaulding, Pres. Harrison, Sunflower, Alcyon, Japonais, Excelsior, Mr. M. Wheeler, Superbiflora, Mrs. A. C. Turpe, T. C. Price, The Bride, W. H. Lincoln, Mrs. F. Jackson, Sunnyside, Mrs. Bowen, Eldorado, Mrs. Fottler, Miss Hartshorn, Veil d'Or, Violet Rose, Kioto, W. W. Coles, Mrs. I. Clarke, Eynsford White, Mrs. Wanamaker, Jno. Collins, Soliel Levant, Domination, Dawn (V. H. Hallock), R. Bottomly, Ceres. J. T.

Additional Echoes from Philadelphia and Elsewhere.

This one all the way from Boston: "How long since A. H. Fewkes lived in Tewkesbury? That is where the alms-house is." It should have been Newton Highlands, Mass.

Here is another from Woodbury, N. J.: "We notice in your report of the Philadelphia chrysanthemum show that you described the new seedling 'Mrs. G. G. Green' as being white. It is a delicate yellow."

And this from Chicago. Mr. Edgar Sanders writes: "I have just come across a matter that may have escaped many of your great chrysanthemum growers, and that is your society (Penna. Horticultural) has been giving premiums for growing mums and even seedlings 44 years at least. For example, I have a record reading thus: At the Penna. Horticultural Society meeting November 17, 1846, the attendance of visitors was good, and the display remarkably fine and consisted principally of chrysanthemums, of which there were seven extensive collections of choice specimens. Premiums were awarded for best 12 named varieties of chrysanthemums to Benj. Gullis, gardener to Jacob Snider, Jr., 2nd best 12 to Archibald Henderson. For best American seedling chrysanthemum to Benjamin Gullis." So that Philadelphians have been raising seedlings a good while."

Thank you Mr. Sanders for this bit of interesting history about Philadelphia's early efforts in the cultivation of the chrysanthemum.

Mr. Thorpe in his essay read before the Penna. Hort. Society October 21 this year, and printed in the *FLORIST* November 6 last, also gave some instructive history relative to this Queen of Autumn and Philadelphia.

I am told that chrysanthemums *Ramona*, *La Fortune* and *H. E. Widener* are very similar. I looked through many collections at Philadelphia during the show very carefully to find if possible all the names so as to compare the flowers, but I failed to find any but the Widener. Will some of your readers kindly throw light upon the subject?

For the purpose of giving intending growers of orchids an idea of what varieties may be had in bloom for exhibition at chrysanthemum shows, below will be found a partial list of what made up the tastefully arranged orchid display made by Mr. Evans, of the Rowlandale Nurseries: *Cypripedium Lawrenceanum*, *C. Harrisianum*, *C. Spicerianum*, *Cattleya Bowringiana*, *Lælia anceps*, *Odontoglossum geyense*, *O. varicosum*, *O. crispum*, *Dendrobium Deari*, *Vanda cerulea*, *Cattleya Harrisoniana*, *Lælia Dayana*, *Calanthe Veitchii*, *C. oculata gigantea*, *Odontoglossum Rossii Majus* and *Zygopetalum Mackayii*.

What a magnificent plant *Draecena umbraefera* is for exhibition purposes. One came from the conservatory of Postmaster General Wanamaker which was about seven feet high and as far through; and this perfect specimen Mr. Alex. Young, the gardener, says is only four years old. Not a leaf was damaged and the stem was clothed clear to the base.

Meeting Mr. Wm. K. Harris on the street a few days ago I said: "Any seedlings opened since the show?" "Yes sir," said Harris, "I've got a shorter." "What is it like?" said I. "Come out and see it," said he. So the first opportunity I had to see it I went, and sure enough, there it was, a very large flower, light yellow in color and similar to Violet Rose in form. It will in all probability be later than the Widener, and it will be that much more valuable in consequence. It has been named "Miss Eva Hoyt," in honor of a New York lady. At the time of my visit Mr. Harris had not sold it. He holds it at a higher figure than he has asked for a seedling yet.

The last exhibition has been so eminently satisfactory in every particular that the enthusiasts are shaping their course, even now, for a grand rose show to take place probably during the Lenten

season, as the outdoor roses in June in this section are not what might be termed first class. E. L.

Philadelphia.

Mums the word, and mums the flower, for this season of the year; at least some rose growers must think so, as they are still waiting for the mums to go before bringing in their roses. There are many opinions expressed regarding this flower, and here are a few of them.

"Chrysanthemums have sold just as well this year as ever, only there are too many about." Thos. Cartledge.

"They're a fine flower and there's a place for them." K. Craig.

"I think the stores will be better off when they are done." George C. Evans.

"I'll sign a paper never to grow another one." Sandy Demison.

"If there were no chrysanthemums there would not be roses enough to go around." George Anderson.

"Confound the weeds! Still I like them." J. W. Colflesh.

"They're all right as long as we can get three dollars a dozen for them." K. Heron.

"Have sold more this year than ever. We have to work late at night to get our orders out." W. K. Harris.

"Queen of Autumn! Queen of —!" An all rose grower.

"They're a good thing. I sell lots of them at good prices." Robt. Crawford.

"You can say what you please about them, I like them, always did and always will." R. Kiff.

"Chrysanthemums, well the lot show put the society right on its feet. We must have cleared over \$1,200." Dan Farson.

"I like anything I can sell." Wm. J. Baker.

Cut blooms ranged from 50 cents to \$20 per 100.

Every one seems to have had a good Thanksgiving trade, and for the first time this season roses seemed scarce. They are bringing, *La France*, Albany, *Mets*, *Brides*, *Gullots*, \$6 to \$8; *Perles*, *Gontiers*, *Niphetos*, 3 to 4; *Carnations*, 1.25 to 1.50; *hyacinths* 5; *valley* 8; *violets* 50c a 100. 1.

Boston.

Thanksgiving Day trade was about the same in volume as in previous years. The day was the coldest of the season thus far, and the supply of roses has consequently been shortened up. Violets were in brisk demand and sold well. Good chrysanthemums are about finished but there is quite a supply of inferior quality blooms still in the market. Carnations are more abundant and bouvardia and Roman hyacinths are coming in in quantities.

Quite a number of weddings and other society events are talked of for December and the outlook for the immediate future is very favorable.

Needle pines and palm leaves from the south are in the market. City florists now use these serviceable greens in large quantities, for they fill the place to a great degree of plants in big decorations, and by using them therein in very cold weather quite a saving in cost of packing and risk of transportation of large and valuable plants.

A great many flowers were used at the funeral of the late Commissioner Tobin. Many large and expensive designs were sent and most of the local florists got a share of the work.

Several of the Boston brethren visited the great exhibition of the United States



VIEWS AT CHAAPEL'S TRADE DISPLAY. [SEE PAGE 246.]

Nurseries at Madison Square Garden, New York. The exhibition was a tremendous undertaking, well managed and worthy of all the success it attained.

The committee on establishing prizes has been hard at work at Horticultural Hall and the schedule of prizes for 1891 will soon be ready. The increased appropriations for the use of the flower and plant committees will give opportunity for some welcome additions to the premium list.

W. J. S.

Chicago.

Paul Krohn, the North Side florist, while driving on Clark street last Thursday lost control of his horse and collided with a buggy near Division street. The shock threw him upon his head against

the curbing. He was taken to the Alexian Brothers' hospital, where his injury was found to be a compound fracture of the skull, five inches long, across the forehead. The physicians say there is but little hope of his recovery.

Mr. J. T. Anthony is improving rapidly and will soon be around again.

The report that P. D. Armour is building a range of greenhouses with a view of making a collection of orchids proves to be incorrect. Mr. Armour states that he does not know an orchid from a sunflower and has no desire to acquire the knowledge.

The regular semi-monthly meeting of the Florist Club will be held next Thursday evening, the 11th inst. The last regular meeting was omitted, as the date came on Thanksgiving day.

Plans are already being laid for the exhibition of 1891.

The appointment of the chief of the horticultural department of the World's Columbian Exposition is daily expected. The appointment will be made by Director General George R. Davis.

Thanksgiving trade was very satisfactory.

UNQUESTIONABLY many lessons have been learned during the last month regarding the management of exhibitions, and with a view to securing to beginners and exhibition managers of the future, the benefit of the experience gained, we invite a discussion upon the subject, and ask those who have had experience to send in their views and suggestions for the improvement of present methods.

New York.

The flower show by Pitcher & Manda in the Madison Square Garden, as an individual effort was a great success. It is to be regretted that their effort did not receive the support it warranted from the local club. If it had not been for Pitcher & Manda, New York would have had no flower show this season.

The exhibition was very artistically arranged by Mr. Manda assisted by Mr. John Thorpe. The classifying of the different species of plants was very effective.

The avenues were lined with fine specimens of the treefern (*Alsophila Australis*). Chrysanthemums furnished the greater part of bloom, but the principal feature of the show was the very fine collection of cypripediums (Manda's pets). Manda is truly king-grower of the cypripedium and his exhibit on this occasion was well-worth seeing.

A group of the comet like *Anthurium Andeanum giganteum* hanging over a bed of Mrs. Alphus Hardy was a very striking feature of the show. Another feature was a dining room decoration. A large mirror on which were placed six white porcelain swans filled with Madam Cusin roses occupied the center of the table, garlands of the same roses being entwined amongst the dishes and passed through the mouths of the swans. Still another striking feature was a drawing room decoration. The tapestries being of a pale blue contrasted with a curtain of Madame Hoste roses, thrown carelessly over the mirror and tied at the side with a bow of yellow ribbon. On the mantel were placed some fine specimens of *Adiantum Farleyense* with sprays of *Oncidium tigrinum* peeping out between their beautiful fronds. Fine specimens of kentias and crotons were grouped in the corners, the whole forming an effective contrast to its surroundings.

An elaborate Thanksgiving dinner was given Thursday at the new Imperial Hotel. The tables, 39 in number, were handsomely decorated by Fleishman. The grouping of the national colors in flowers presented a novel feature, on each table being placed a center piece composed of Papa Gontier roses and Lady Emma carnations, Roman hyacinths and Neapolitan violets, arranged in bunches and making a beautiful after dinner souvenir for the ladies present. The hall leading to the dining room was decorated with curtains of smilax looped up with bunches of yellow chrysanthemums.

A very effective funeral design was made by Klunder for the casket of the late August Belmont. A wreath of cypress palm leaves encircled the casket, the lid of which was entirely covered with violets.

The recent wedding decorations at St. Thomas' church and for the reception at Sherr's, by Ellis, were very handsome. The principal flowers used were Yellow chrysanthemums and La France roses. The bride carried a bouquet of lilies of the valley tied with a white moire ribbon. The bridesmaids carried bouquets of yellow and white chrysanthemums.

Business during the week has been very good; the cold wave has given it its usual impetus.

Among our visitors during the week were W. J. Halliday and Mrs. M. J. Thomas of Baltimore, Geo. Savage of Rochester, D. B. Long and J. H. Rebstock of Buffalo, P. Norton and P. Welch of Boston. JOHN YONG.



Prospective Thoughts.

Well! Is everybody satisfied? Has there been glory and honor enough to go all round? If not, why not? For certainly never were such opportunities offered, never more gorgeous displays made, surely everything is propitious, the prospects seem to be magnificent, and every thing appears to be lovely for the mums. And it seems to me judging from the two or three that I have been able to see of the many attractive shows that have been held this fall, and the full and complete accounts that I have been enabled to read of the others, that such a bold determined and decided advance to the front has been made as will mark this the commencement of the second century of the introduction of the "Golden Flower" as a clearly, well defined and distinct epoch in its history.

It would seem that the grand standard plants exhibited by Mr. Barr at Orange, in this state, were absolutely perfect in every minute particular, and the several exhibits of specimen plants occupying the center of Horticultural Hall, Philadelphia, were marvelous examples of skillful culture, the twelve plants exhibited by Mr. Drexel's gardener were especial objects of admiration, these plants were arranged in threes on the floor of the hall so that they just touched each other and the twelve by actual measurement by myself occupied a space equal to 432 square feet, an average of 36 square feet to each plant, and by a very close inspection it seemed impossible to detect a single fault. The cut flowers in many cases were simply immense, not only in form and size but also in structure and many were so unique in color as to set one pondering over future attainable possibilities in the chrysanthemum. Verily the world doth move, and the florists are a progressive people. But when we reflect that exhibitions of the same character were in progress at pretty much the same time all over the country, in Canada and many parts of Europe, the thought presents itself that the power being exerted over public opinion and public taste must be something far beyond our means of reasonable computation.

There are also at this time other considerations which will suggest themselves to both societies and individuals. Are the schedules of the several societies and clubs so evenly balanced and so nicely adjusted as to be thoroughly satisfactory to the grower, and at the same time sufficiently remunerative to the society to allow a balance on the right side? It seems to me that while societies can well afford to be generous to the extent of their ability, that financial strength should at all times be retained sufficient to increase their influence whenever opportunity offers, and that in such careful business management the true strength of the society is developed and the greatest benefits secured to the grower and exhibitor, and the best results obtained.

H. E. CHITTY.

Paterson, N. J. Nov. 24.

New Chrysanthemum Etoile de Lyon.

The writer while visiting on Staten Island, N. Y., during the third week in November called upon that illustrious grower of the "Queen of Autumn," Mr. Wm. Tricker, the well known gardener to Judge Benedict, and saw the above variety in its grandeur. It certainly is one of the finest of all the French productions, a magnificent bold and fine globular shaped flower of perfect form and enormous size, in color light pink changing to white. It is of excellent habit and its merits must gain it a position in every popular collection.

Mr. Tricker is also making extensive preparations for the propagation of water lilies, to which he has for some time been devoting considerable attention and has a splendid collection. The last few years he has been paying particular attention to hybridizing his best varieties and some very choice seedlings may be expected both in form and color of the flowers. ALPHIA.

Long Island Notes.

BY WM. FALCONER.

Mr. J. L. Childs has removed his old seed store building to alongside of his new greenhouses on the other side of the railroad, a new building is a spacious and handsome four-story brick structure. Quite a village of pretty cottages are being built, mostly by his workmen, on a newly opened street beside the R. R. station.

JOHN objects to being "roasted like a herring," and it had not been for C. L. Allen the other day, I don't know but he would have roasted me.

Mrs. JOHN LEWIS CHILDS is the name of a very beautiful blush chrysanthemum raised at and now in bloom in quantity at Floral Park. It belongs to the Japanese section. The flowers are large, full double, 5 to 6 inches through, and have broad, incurved, shaw-like-cupled petals, and the plants are vigorous and very profuse. But the flowering stems are too slender and weak for the weight of the heavy blossoms.

GOLDEN CACTUS is the name of a very large-flowered Japanese chrysanthemum now in bloom and which was raised there from seed. The form and color of the flower are well expressed in the name.

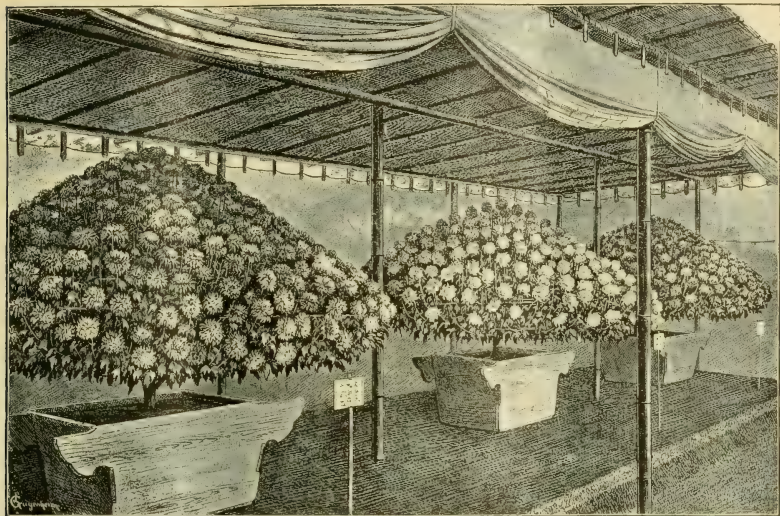
AMPELOPSIS ROYLEI and Veitchii from seed. In the seed grounds I noticed several rows of seedlings of these two vines. The seeds were sown in the rows last spring at the same time, under the same conditions and alongside of each other, but the difference now is very marked. Roylei has far outgrown Veitchii.

CHRYSANTHEMUM indorum plenissimum is being increased from cuttings as this is the only way in which to get up a thoroughly reliable stock of the double flowered variety. But I also observed that where the fine double form was blooming the petals were shorn off as are those of Japanese or Chinese chrysanthemums, with a view of getting seed of a superior strain.

NEARLY 30,000 cactuses, sansevierias and stapelias in little pots are a sight to be seen only here. And 20,000 *Mantzia bicolor* now ready besides the tens of thousands in process of manufacture?

BONE DUST FOR AMARYLLISES.—Mr. McKay, Hallack's farm, uses a good sprinkling of bone dust on the surface of the soil in the pots, and to this he attributes largely the thrifty condition of a lot of *A. calica* ptyalopala he has now coming into bloom.

DANVILLE, ILL.—Frank B. Smith has added two new houses, giving him a total of over 10,000 square feet of glass.



EXHIBITION CHRYSANTHEMUMS GROWN BY JAPANESE GARDENERS

FREDERICK CREIGHTON is the name of a new pink carnation I found at Hallock's. It was raised by George Creighton of Tarrytown. Louis Siebrecht and Hallock both grow it. Mr. S. tells me the blooms of it Mr. Creighton sent to him last year were the largest and finest pink carnations he has ever seen; his own plants are hardly in good blooming condition yet.

Mr. McKay has a fine lot of young violets. He believes in September cuttings. He grows them in little pots then plants two in a hill on the benches. They set to growing right away and in winter produce the finest and largest violets, and they are not so subject to disease as are the large or year-old plants.

LOUISE E. MCKAY is a canary yellow coleus of vigorous habit. The originator claims that it is the best yellow coleus we have for outdoor use, that it maintains its yellow color persistently the whole summer long and grows uniformly, and that its leaves never dump off or become tarnished as is often the case with Golden Beldier.

JULIUS SCHARFF is making a specialty of "Stonewall Jackson", white, and Kioto, yellow, chrysanthemums and both are splendid varieties. The first has very fine, large flowers that stand right up on stiff stems, and good foliage; the last, when well disbudded bears uncommonly large, fine, incurved flowers but the long flower-stems are not, naturally, very well clothed with leaves.

GOLDEN ALPHA is an October-blooming yellow flowering chrysanthemum that Mr. Scharff raised from seed some years ago. Both he and his friend and neighbor, Louis Siebrecht, grew it largely for

cut flowers this year, and made more money out of it than out of any other variety they have handled, and all because of its earliness.

GLADIOLUSES blooming the first year from seed is something that has never happened with me, but C. H. Allen assures me that this has happened in a good many cases with him this year. This year, however, has been an unusually favorable one for gladioluses, and both Mr. Allen and the Hallocks are well satisfied with the season's growth.

IN MR. ALLEN'S yard I noticed a very handsome variegated form of the hardy yucca, *Y. filamentosa*.

Climbers.

A few good climbing plants form a useful portion of the general florists' stock, and this list need not be confined to those that are only useful as pot plants or for exhibition specimens, for there are many that may be made to serve a double purpose from the fact that they may be grown as pot plants for retail sales or when planted out in the end of a greenhouse will furnish sprays for cutting, the latter being of use either for foliage effects or for flowers, according to what the plant in question may be best adapted for. And among plants of this habit that are notably useful is that well known but remarkably beautiful climber, *Cissus discolor*, a plant that is easily grown, readily propagated and deserving of all praise for its elegant coloring.

When planted out in a warm house *Cissus discolor* is a rapid grower, and the combination of metallic green, white,

crimson and other tints in its foliage makes it most attractive when cut in long graceful sprays for decorative work. For exhibition purposes it is probably most effective when trained on a balloon trellis or some similar arrangement, and when in good condition never fails to attract attention.

In addition it may be used as a basket plant outdoors during the summer, provided the basket is placed in a shaded location, as this *cissus* is not partial to much strong sunshine.

Of somewhat similar character to the above are some of the *discoloras*, that is, in regard to foliage, but being herbaceous in growth the *discoloras* have not so long a period of usefulness to the florist. The two varieties to which reference is here made are, however, very pretty plants and deserve a place.

The first, *D. discolor*, is among the earliest to be cultivated for ornamental purposes of the *Yam* family, and is a slender-growing climber with rather wiry stems and cordate leaves, the latter being more or less marbled with various shades of green on the upper side, while the under surface is reddish purple.

The second variety to which attention is invited is *D. metallica*, this being a considerable improvement on *D. discolor*, as the foliage is variously shaded with olive green and bronze and attains a length of four to six inches. During the period of rest the tubers of the *discoloras* may be kept in much the same way as those of *caladiums* are treated, and propagation may be effected by cutting the tubers into short lengths in the early spring, and by placing them in a warm house for a time their growth is usually

assured. Division should not be attempted while the plants are growing, as loss may result thereby.

If space can be spared for its accommodation a good plant of *Passiflora princeps* (*P. racemosa*) planted out and trained on wires attached to the roof makes a valuable addition to the available stock of cut flowers, and is seldom out of bloom. The long racemes of bright red flowers produced by this plant are very showy and especially useful for church decoration, and though the individual flowers do not remain open very long, still the sprays last well in water and the succession of buds is almost as ornamental as the flowers themselves. *Passiflora princeps* is naturally a strong grower and is usually more satisfactory when planted out in a house than when grown as a pot plant. A light loam well drained and enriched with some old cow manure is a suitable compost, and an occasional watering with liquid manure will be found beneficial. Among the old fashioned plants once much esteemed for spring flowering was *Tropeolum tricolorum*, an easily grown and very free flowering variety of this very extensive genus. This is a tuberous rooted plant and should be started into growth in the fall, the tubers being potted into the pots they are intended to bloom in, as they do not flourish if the roots are disturbed after active growth begins, and a fit compost for potting is composed of two-thirds good loam to one-third of peat and some dry cow manure, to which should be added sand enough to render the mixture open.

The growth of *Tropeolum tricolorum* is slender, and the leaves are divided into several leaflets and dark green in color. The flowers are produced in great quantity and are colored with a combination of orange-red and yellow and tipped with black, and though individually small are very showy. A graceful way of training this plant is to insert two or three small twiggy branches in the pots in place of stakes, and to allow the plant to ramble at will over them, and when in full flower the result will be admirable.

W. H. TAPLIN.



At the Recent Exhibitions.

It is exceedingly pleasant to note that carnations have formed quite a prominent feature at several of the exhibitions this fall, and that they have been shown in greater numbers than heretofore, which is a healthy sign and indicates a growing taste, as well as a more decided recognition of the importance, value, and increasing popularity, of these fall and winter flowering plants, and the premiums offered in various forms by several societies show a disposition to encourage and develop their culture, all of which is very gratifying to the grower. And as the main object of the society is clearly to encourage and the objective of the grower is a successful competition the question presents itself which is the best way to subserve the interests of both?

The New Jersey Horticultural Society in its last schedule offers a separate premium for a bunch each of six distinct colors, viz, scarlet, white, pink, yellow,

crimson, and red, also a separate premium for a bunch of the best new variety, each bunch to contain twenty-five flowers. This seems to me an excellent plan, as it not only has the effect of bringing together in competition different varieties of the same, or nearly the same shades of color, but it also requires twenty-five flowers to comprise the bunch, which is the usual number put into bunches when gathered for market by the grower. This feature will cause the grower to use skill and judgment in the very simple operation of tying up his bunches (which admits of wonderful improvement), so as to make them most effective when arranged for exhibitions.

The Chicago Florist Club in its last schedule offers premiums for certain specified varieties, a bunch of each comprised of twenty-five flowers. This plan while it would have the effect of bringing into competition those special sorts named, would not be so likely to assist in determining the best in any given color, which in my estimation is a most important matter. For instance there are several varieties in the field as rivals to Grace Wilder, now it is simply impossible for a single grower to plant a sufficient number of each of these sorts in any one year to determine their respective values, but if premiums of sufficient amount were offered to induce the raisers of these varieties to place them on the exhibition stand side by side with Grace Wilder herself, then we should have an opportunity to examine their respective merits, and determine which is the best for general purposes. This same rule would also apply to carnations of all shades and colors, and it seems to me would be the legitimate way for raisers of new kinds to present them for public approval.

The Pennsylvania Horticultural Society offers a prize for a collection of cut carnations in masses, no flower twelve flowers of a kind, which in proportion to value of premium offered is flowers enough, but I think the society would be the gainer if the amount of premium was three times as much, and the number of flowers limited to twenty-five of each sort.

The Society of Indiana Florists, the Cincinnati Florist Society, the Erie P., Chrysanthemum Club and others manifest considerable liberality towards the carnation, and perhaps some of them may be able to gather a useful hint from the suggestions which I have made.

Now, while on the subject of societies and exhibitions, I have what I consider a very important suggestion to make. The officers of the many societies that have held exhibitions this fall cannot have failed to notice the eagerness with which the representatives of their local newspapers have been on hand to gather and distribute all the leading features of the exhibits, and in many cases minute details have been gathered and published with an exactness not always expected from the average daily paper. These same newspapers are the real educators of the masses; thousands of people read them who will never read the horticultural papers. I would therefore suggest that ample arrangements be made at every future exhibition to adopt some system of bulletin, whereby the several awards be promptly, and correctly displayed with details of all other necessary information, so important and so dear to the average daily newspaper reporter. I feel convinced that some such method would relieve the officers of the society of much embarrassment, which has heretofore been considerable of an interference with their duties. H. E. CHITTY.

Tying up Carnations.

Have just read Mr. Chitty's article on tying up carnations. My method of tying up carnations is something like this: A bed 8 feet wide will take 8 to 12 plants; put a stake on the outside of the first plant and one between each plant across the bed and one on the outside of the last plant; take 3 or 4 ply cotton wrapping yarn, tie it to the first stake 6 inches above the soil, run it round on one side the first plant to the next stake, wrap round once or twice, and then to the next, and so on until the outside stake at the end of the row is reached, then round on the opposite side in the same way until you get back to where you commenced. Then run another string 6 inches above the first, and then a third. Leave the strings rather loose and floppy, so that when the plant grows larger it will not be cramped. As the plants grow some of the stems will get on the outside of the strings, but they are readily put inside. GEO. W. SCHROYER.

Lancaster, Pa., Nov. 28.

Arranging Plant Decorations.

The sketch presented herewith shows the manner in which Florist J. T. Anthony, of Chicago, makes good use of the pipe plant stand which Mr. Harris uses in his greenhouses. No one who has arranged plant decorations will need to have its usefulness in this work pointed out after a glance at the sketch. There is no longer any necessity to clutter up a house with inverted pots or bulky boxes to "build up" a bank of plants. A number of these iron standards of different lengths fill the bill to a nicety. They are not only neat and clean and more readily placed in position than any other means of bringing up a short plant, but occupy less space and are preferable in every way.

For the benefit of those who may not have seen former references to this stand we would say: they are made of 1 1/4 or 1 1/2-inch wrought iron pipe, cut to the desired length, a thread is cut on each end, and finished by screwing on flanges from 6 to 9 inches in diameter. The cost is slight and they will last a life time. The materials can be purchased of any plumber or gas fitter and can be put together by any one having the tools for cutting the pipe and threading the ends. No florist who supplies plants should be without these useful and inexpensive stands.

Succulents.

BY E. S. MILLER.

(Read before the Society of American Florists, at Boston, August 20, 1893.)

By succulents we mean such plants as agaves, echeverias, cacti, alics, house-leeks and the like that have thick, fleshy leaves.

Florists who grow a general assortment of plants usually handle a few of the more popular kinds, as echeverias (properly called cotyledons), house-leeks, agaves and such others as there is a popular demand for as house or bedding plants, but there are very few florists in the country who make a specialty of cacti and other succulents. The reasons for this are that the plants are unclean and unpleasant to handle, difficult to increase readily, and seemingly there is no demand for them. Now the truth is there is money and big money in this class of plants if rightly handled. In order to make them pay, only the best, most satisfactory and popular kinds should be grown, and, in fact, only those kinds that

we can get up in great quantity at low cost. We can't reckon on getting more than fifty cents for a cactus or other succulent, and it will not pay us to handle anything we cannot produce with good profit at this price. When it comes to clovehearts, house-leeks, mesembryanthemums and the like, we can not hope to get many cents for a plant—on the contrary we expect to dispose of them at colic prices, or less per hundred.

In order to dispose of cacti at all they must be presented to the public in a forcible and popular manner by advertising. We have now some 30,000 cacti and the like in active preparation for next season's trade, and as you all know, if there was not money in them we would not handle them.

Omitting such popular succulents as clovehearts, house-leeks, agaves, sedums, and mesembryanthemums, allow me to call your attention to such other succulents, cacti, etc., as we find in greatest demand, and of which it is easiest to get up a stock, hence the most profitable to handle. These may be divided into four sets, namely: East Indian hemp (sansevieras), Snake Cactuses (cerei), Leaf Cactuses (phyllocacti) and Cushion Cactuses (echinocacti and mamillarias.)

The sansevieras (*Zelanzania* and *cylindrica*) have recently become very popular as house plants, and deservedly so, for they are very easily grown and endure dwelling-house inhospitality with as much impunity as a ficus or an aspidistra; and if properly handled it is very easy to get up a large stock of them. We do this from cuttings of the stem-like leaves, also from cuttings of the roots, and not from division of the old plants as is generally the case. Cuttings should be taken in the spring and early summer, but never in the fall or winter. Cut the leaves in two-inch pieces—laying them all the same way in a flat to dry for a few days. Strike in sand well packed and wet, but afterward water sparingly. They will be well rooted in about a month, when they may be potted in thumb pots. In a month or two young plants will start from the base of the cutting, which may be removed and potted when an inch high, or when rooted.

The cuttings can be potted again and will continue to produce young plants. I have taken a crop of young plants from cuttings a year old—taking as many as nine from each.

The roots can be cut in pieces, one-half to one inch long, and planted in flats of soil, producing fine plants in two or three months.

The cerei, or Snake Cactuses, include the night bloomers (*C. macdonaldii*, *C. floridus*, *Cereus Macdonaldii*, *Cereus nycticalis* and *Cereus triangularis*—also the rat-tailed cactus (*Cereus flagelliformis*). Each and all of them are propagated by cuttings of the stems in the following manner: Taking old plants for stock, cut the stems in pieces three inches long, allowing them to dry until the ends are well calloused—the time required depends upon the time of year and age of the cuttings, longer in winter and with old wood, unless the young wood be much dried before cutting. Strike the same as sansevieras. They will root in from three to six weeks. Pot in thumb pots, withhold water a week or more, or until root action takes place. We now have stock plants from which can be taken successive crops of cuttings, which will make fine saleable plants. They will produce cuttings from the tubercles, or clusters of spines, until they are exhausted or destroyed by cutting, when

they will begin to throw up suckers from the root. Cuttings should be taken off with a sharp knife, never broken off.

The leaf cactuses (phyllocacti) include that very popular species, *Phyllocactus latifolius*, which is often called Night Blooming Cereus, and has broad flat leaves. It also includes the crimson-flowered *Phyllocactus Ackermanni*, the lovely creamy yellow *Phyllocactus crenatus*, and the pink *Phyllocactus speciosus*. All of these are readily propagated from short cuttings of the leaf-like stems. Make them about two or three inches long. The flat stems may be split lengthwise through the centre of the mid-rib, or woody axis. Every piece will produce a good seedling plant in a year's time if care is taken to have an eye, or notch, on each piece. Having made the cuttings, treat them in the same manner as cereus cuttings.



ARRANGING PLANT DECORATIONS

The cushion cactuses include *echinopsis*, *mamillaria*, *echinocactus*, etc. The *echinopsis* are very desirable on account of their large, fragrant flowers. They are best increased by rooting the offsets which are freely produced. *Mamillarias*, *echinocacti*, etc., can be increased in various ways, but all processes are too slow to be remunerative to the florist. We never attempt to propagate them, for it would not pay us. We simply get them collected for us in their native wilds, and shipped to us in cases packed dry with hay. They usually arrive in good order. The best time to get them is in the late fall, after growth has ceased, but never or early spring. If received in fall or winter they may be left in any warm dry place, in baskets or flats, for three or four weeks without injury, but they should not be allowed to get too dry. To prevent this, place them closely in flats of soil which have a goodly proportion of sand in them, keeping them quite dry until growth starts, when they should be watered once a week. If received in spring, they should be put in flats of soil at once. In planting, cut away all decayed parts and broken or dead roots. We get them from Arizona, New Mexico, Texas and Mexico.

The following varieties are very satisfactory to handle, and give satisfaction to customers.

Mamillaria appplanata, *Mamillaria micromeris*, *Mamillaria Grahami*, *Mamillaria Williamsi*, *Mamillaria lasiocoma*, *Mamillaria ussila*, *Echinocereus pectinatus*, *Echinocereus candelaris*, *Echinocactus parvicornis*, *Echinocactus texensis*.

Echinocactus Simpsoni, *Echinocactus horizontalis*, and *Echinocactus setispinus*.

Cushion cactuses should never be planted outside, unless in frames where they can be covered with sash at night and during wet weather, as the rain beating the soil on them causes them to rust, from which disfigurement they will never recover. They are best kept in flats in the greenhouse without shade, where they will grow and bloom profusely, and seem to thrive in the ordinary summer temperature. In winter they should be kept drier, but not dust dry all winter, as is often recommended. The amount of moisture required will depend upon the temperature. They should be kept in the brightest possible light in the temperature of 55° to 65°.

All cacti require to be kept rather dry in winter, to ripen the wood, though young plants of all sorts should not be allowed to dry out. They also require a higher temperature than old plants. *Phyllocacti* and *cerei* should be grown in good soil, and not started on a compost of sand, broken pots, brick rubbish and lime, or old walls, as is frequently recommended. We use the same soil, with the addition of a little sand, that we use for other greenhouse plants with very good success. Watering should never be done on a cloudy day, no matter how dry the plants may be. Care should be exercised in giving water overhead, for some cacti, such as the *anhalonium* section of *mamillaria*, are so formed that if water stands between the tubercles it will cause them to decay. It is essential to success that houses where cacti are grown should be tight, so they get no drip. For this reason alone they should not be grown under the benches.

Cacti are not free from the attacks of insects. Thrips, mealy-bug and scale are the worst. Thrips may be held in check by the use of tobacco fumigation, syringing with a weak solution of kerosene dust, or tobacco-dust on them after syringing them with water. Mealy-bug can be removed with a toothpick, stiff brush, or killed by application of pure alcohol with an atomizer. Scale may be removed with a stiff brush from all smooth varieties, but some *echinocacti* and *opuntias*, owing to the numerous spines are difficult to clean. If badly infested it is best to throw them away to prevent spreading the pests.

The best manner of shipping cacti is to pack them in dry hay or excelsior, first wrapping each specimen in paper to prevent the packing from getting in among the spines. A very little moss should be used (and not quite dry) about the roots of *cerei* and other strong rooting sorts. Those having long spines should have plenty of packing to prevent the spines from injuring other plants.

We have here endeavored to present a few hints regarding the propagation and the interesting class of plants gathered from a limited experience, our fair measure of success being our excuse.

SAN FRANCISCO.—Thirteen new members were elected to the California State Floral Society at the meeting November 14, and nine certificates of life membership were given out. A report on the recent chrysanthemum show was to the effect that the receipts would more than pay the expenses. At the next meeting a vote will be taken on a state flower. The escholtzia or California poppy is strongly advocated. The *Romneya Coulteri* is also suggested.

OBITUARY.

RICHARD PRITCHARD.—In the death of Mr. R. Pritchard from typhoid fever at Cincinnati, November 11, the trade has lost a man who had in his calling few equals and no superiors.

Born in Wales, raised from early childhood among growers and gardeners, taught by his father who was himself a gardener, living as one may say in an atmosphere of plants and flowers, he acquired such thorough training in the practice of his trade as is, nowadays, rarely to be met with. Later he worked at Bull's, Veitch's and with Wills in London, and was head gardener at some of the noted private places in England and Wales. After spending three years in Buenos Ayres with a married sister he came to this country some eight years since, and although owing to his modesty he was little known except to those who had the fortune to meet him, he was acknowledged by all who did know him and his work to be without a superior. He had worked as head gardener to Tilden at Greystone, and as foreman for Jordan, Gasser, Evans, Hill and others. As grower to Evans at Columbus, Ohio, during the Centennial, he entered for fifty-five premiums in plants and flowers and took fifty-four first premiums and one second.

Loving his plants he loved to care for them and grow them and to part with them was to him like parting from dear friends. At the time of his death he was foreman at the Oakley Rose Houses, and being single and without kin or in this country he was laid to rest in Spring Grove by friends in his profession and well remembered by the flowers he so dearly loved. M.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XX.

FIDUCIARY CAPACITY.

Want me to take a walk through your nursery, do you? Really I take no interest in fruit than I do in fruit trees, although I suppose it's all a matter of education. It's a well known fact that no cook can enjoy his own dinner and no doubt you care little for the product of these trees which you have so carefully grafted. Had trouble with a purchaser, have you? Well, state the case. You delivered, you say, fifty dwarf pear trees to old Tom Grigham whom you empowered to make an exchange with you and to turn him for an equal number of grafted apple trees, and in the event of his being unable to do so to make sale of them for the best figure he could get.

Tom slaughtered them. He slaughtered everything from his own health to his neighbor's peace and quiet.

No, you have no redress. You must always bear in mind that a general clause includes a particular one. Had you stood by your specific instructions all would have been plain sailing, but you were too anxious to realize.

If a man is bold enough to repose full confidence in another the law requires that man to accept the acts of his agents as his own. Such a delegated authority is in the nature of a trust. It is what we call in the law acting in a "fiduciary" capacity. Scarcely a day goes by that a business man is not called upon to select some one to act for him in a fiduciary capacity. I understand your position exactly. You had had some trouble with this concern and knew you couldn't sell

them personally, so you let old Tom Grigham into your confidence and lent him your shoes, so to speak.

Now you can't expect the law to permit you to trust and distrust a man at one and the same time, to blow hot and cold just as your humor or rather your pocket may prompt. The business relations of life continually call for these "fiduciary" relations. Indeed no business could be transacted without them. A dealer must have his agents, factors, brokers, bankers, commission men, etc.; a dead man must have his executor or administrator, a child must have his guardian, a lunatic his committee, a client his attorney. You may raise seeds enough for ten thousand people, but you can't find time to go about and sell them. Hence it becomes necessary for you to make choice of certain of your fellow men to act for you, just as you did in the case of old Tom Grigham.

True, as you say, there are two sides to this question, and the person whom you thus implicitly trust must accept the trust in a very solemn spirit; he must undertake the obligation with a full sense of its importance, he has not created the property, he has in fact but a small interest in it. Were it not for your labor he might starve to death, for possibly he may be lame or infirm of body.

Now when a man acts for another in a "fiduciary" capacity he must adhere to specific instructions, but the trouble is as you have found, that it is very difficult to lay down cast iron directions; much must be left to the man's discretion, and herein lies the danger of this business relation. But bear in mind that having once created this relation the law will not allow you to change it into a business relation of another kind.

For instance, you deliver fifty dollars worth of cut flowers to some friend who assures you that he has a "pull" some where and that he can sell them when you couldn't, the law will not allow you to arrest him for larceny if he disposes of the flowers and puts the money into his pocket.

It is simply a breach of trust and not a taking of your property with an intent to steal. You confide the property to his care and custody, and having created this fiduciary relation you must stand by it.

Yes you may cause his arrest in some states on what we call a "civil process." The general rule is that when you place your property in the hands of another person the legal inference is that you empower him to do with it as if it were his own, of course in the absence, mark we, of specific instructions and specific written instructions. If you part with your house under a lease your tenant is constrained to keep within the relation of landlord and tenant, or if you hire your horse to another he must use the animal mercifully as a reasonable man would do. But if you give me a note endorsed in blank by you I may make any use of that note which the law would allow you to do; proper to innocent third parties you would not be allowed to set up that I had given nothing for the note or that you had merely entrusted it to me for collection. Now you will perceive that this "fiduciary" relation may arise even without any word written or spoken that it be implied. For example, you send a thousand dahlia bulbs to a commission dealer, the mere fact of the receipt of the merchandise is all that is needed. But you may say, suppose he is not willing to attempt to dispose of the property for you? Then he must at once notify you of such fact. He is not obliged

to return the goods to you, but merely to notify you that they await your order.

Yes, you are right, it does frequently happen that this so-called "fiduciary" relation arises without your knowledge or consent and yet you must, in a certain sense, accept it. For instance, suppose a rich customer orders a bill of valuable plants of you, pays you well, say \$500, and goes away to Europe, but you upon attempting to execute the order can only fill one half of it. Now you see here's a fiduciary relation to the other \$250. The law exacts that you take the same care of that money as if it were your own, nay, in fact better care of it, and such a trust passes to your assignee if you fail, and to your executor if you die.

You ask me how it would be if stolen property comes into a man's possession and he in good faith pays value for it? The money would be lost. No one can get a title to stolen property except by sale and delivery or gift and delivery from the rightful owner.

You as a business man must of course frequently find yourself obliged to create this fiduciary relation, but I would advise you to be on your guard how you accept such a trust yourself. All trusts, great and small, are full of vexation and bother and the world has no right to expect a business man to load himself down with obligations outside of his legitimate business. I don't say, accept no such trust at all, for selfishness is a bad thing and the good best buys in a noble and glorious spirit: "Bear ye one another's burdens."

— E. C. BLACKSTONE.

SITUATIONS, WANTS, FORSALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. No insertion for less than one week. Plant ads not admitted under this head.

SITUATION WANTED.—By a first class florist for cut flower work. Good reference. Address W. care Pennock Bros, 1414 Chestnut St., Phila.

SITUATION WANTED.—By a good gardener and florist. References with the best. References to private or commercial. Address H. care American Florist.

SITUATION WANTED.—By a thorough practical gardener and florist, as manager or propagator or to work on interest in the business. Single, German addressed, 25 years experience. Good place. Address A. T. M. American Florist.

SITUATION WANTED.—By an experienced gardener and florist, wood grower of palms, ferns, roses, carnations and early forcing. I have lilacs, bulbs, etc. Private or commercial. Best of reference. Address C. H. care American Florist.

WANTED.—To go as working partner in an established nursery business. I have 18 years' practical experience in the trade and some money. Address R. care American Florist.

WANTED.—A competent and experienced florist, single, sober, and middle aged, and one who will take charge of two greenhouses, eight miles from Cincinnati, on agreeable terms. Address J. care American Florist, Bridgeport, O.

WANTED.—Assistant, Roses, carnations, bulbs bedding plants. Must be active and possess good business qualities. Experience in bedding (at request). State age, wages expected, last place of employment. Address JOHN REX R. Bridgeport, Conn.

FOR SALE.—Florist business, thoroughly equipped and stocked. Doing a fine business at home and abroad. In a growing district. Good location, good reasons. A good investment. Four houses. The best for sale in the city. The property is worth \$1000. Address BARGAIN, care Am. Florist.

FOR SALE.—A florist establishment, one greenhouse 50x15 and two 50x10 feet each, heated by hot water. Weathered and well built. Good stand of wood and pasture, plenty fruit; dwelling house, barn and other outbuildings; good well and cistern. All buildings new and in good order. One hour from New York City and one mile from depot. Price, \$4,000 or will sell the greenhouse property separate for \$2,000. Address P. O. Box 103, Hanseys, N. J.

WANTED.

Vegetable gardener of experience, capable of managing garden of 25 acres. Single man preferred, but would not object to married man if he has no children.

Position ready Feb. 1st, 1891. Address with references, H. J. BROOKS, Supt Illinois Northern Hospital for the Insane, ELLICOTT, ILL.

ROSES

FOR IMMEDIATE PLANTING

Duchess of Albany.....	24-in. \$12 00
Mme. Hoste.....	7 00
La France.....	5 00
Gontiers.....	4 00
Perles.....	4 00
Niphetos.....	4 00
Marmets.....	4 00
Brides.....	4 00
Bon Silenes.....	4 00
Gen'l Jack, 2 in. \$40 per 1000; 3 in. \$800 per 100.	
H. Perpetual, 40 var. 2 in. \$500 per 1000.	

SEND FOR LIST.

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.
Mention American Florist.

FIVE NEW AMERICAN ROSES

Probably the most interesting Novelties of the coming season and those that will attract the widest attention of the Trade on both sides of the water, are our

NEW AMERICAN SEEDLING ROSES,
HENRY M. STANLEY,
MRS JESSIE FREMONT,
MAUD LITTLE,
PEARL RIVERS,
GOLDEN GATE.

Five New Teas of Sterling Merit, originally grown, and tested in this country, and sent out on their merits at reasonable rates. Orders can be booked now, and will be filled in rotation as received—April 1st next. Full descriptions ready Jan. 1st. Prices, \$1 each; set of 5 for \$5; two of each, 10, for \$9; five of each, 25, for \$20.

ADDRESS **THE DINGEE & CONARD CO.,**
Rose Growers, West Grove, Pa.

ROSES
FOR WINTER BLOOMING.
10,000 healthy Roses from 4-inch pots, consisting of NERMETS, BRIDES, PERLES, NIPHETOS and BON SILENES, at \$10.00 per 100.
Also 5,000 field-grown JACKS, 2 to 3 ft. \$10.00 per 100.
DAISIES of the finest strain from seed-bed \$3.00 per 1000.

JAMES HORAN, Florist, BRIDGEPORT, CONN.

IMPORTED H. P. ROSES,
Worked low on the Manetta Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.
Price lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.
A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.
The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.
Mention American Florist.

Rooted Cuttings of Carnations

of all the Standard Varieties ready Dec. 1st.
Having added another 100 foot house to our Carnation Department, hope to be able to furnish any quantity desired, on short notice.
Orders for future delivery at 10 per cent off from catalogue price.

JOS. RENARD, Unionville, Chester Co., Pa.

ROOTED CUTTINGS.

SWEET ALYSSUM; HELIOTROPE; COLEUS G. BEDDER and VERSCHAFFELTII, and CUPHEA, 2 inch pots.
GERANIUMS and HYDRANGEA in 2 1/2 in. pots, CALENDULA, YUCCA, DRACÆNA, 3 in. pots, FERIK ROSES and MYRTLE in 4-inch pots.
Write for particulars. **PETER E. SHEETZ,**
3513 Kensington Ave., Philadelphia, Pa.

ROOTED CUTTINGS.

— Send for List. The prices and quality are sure to please. —

CARNATIONS—All the leading sorts and novelties. Eight 100 foot houses.
COLEUS—Twenty-four varieties. A sample of each for 25 cents, free by mail.
GERANIUMS—A choice assortment in mixture, at \$10.00 per 1000.
ALTERNANTHERA, French and other CANNAS; also other items of interest.

CARNATION NOVELTIES.

About January 1st I will issue a complete list of Carnation Novelties for '91; it will be mailed to all my former customers, and to others on application. No one interested can afford to place their order before seeing it.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

Lizzie McGowan.

I beg to announce to the trade that I shall be prepared to distribute this magnificent **NEW WHITE CARNATION** on the 10th of February, 1891, and that the price will be \$12 per 100, and \$100 per 1000, for strong well rooted plants from the cutting bench. Favorable special rates will be allowed on large quantities. Cash or its equivalent should accompany orders from unknown correspondents.

Send for descriptive circular of this and other sorts. Parties wishing a few flowers of Lizzie McGowan can have them by enclosing twenty-five cents in stamps.

ADDRESS **H. E. CHITTY, PATERSON, N. J.**

NOVELTIES IN CARNATIONS.

Any grower having Novelties in this line to offer the Trade this season, will find it profitable to drop me a card at once for full particulars.

Albert M. Herr,

L. B. 338.

LANCASTER, PA.

LIZZIE MCGOWAN.

I will be prepared to distribute my **NEW WHITE CARNATION** Feb. 10, 1891, and the price will be \$12 per 100 or \$100 per 1000, for Rooted Cuttings propagated. **STRICTLY HEALTHY PLANTS.** Special discount on large orders.

Cash or its equivalent should accompany orders from unknown correspondents. Send for descriptive circular. Parties wishing a few flowers of this **GRAND** Carnation can have them by enclosing twenty-five cents in stamps.

ADDRESS

JOHN MCGOWAN,
363 Main Street, ORANGE, N. J.

CUT FLOWERS OF CARNATIONS.

I am ready to make contract for a regular supply of Carnation florets the coming winter. We have a splendid assortment of Fancy colors—Yellow, Scarlet, Carmine, Crimson, White, Pink and Variegated; and can send them mostly on long stems.

CHAS. T. STARR, Avondale, Chester Co., Pa.

VERBENAS

50,000 READY NOW. 50 VARIETIES.

Strong plants, 2 1/2-inch pots..... \$1.50 per 100; \$3.00 per 1000
Rooted Cuttings..... 1.00
Our Verbena this year are the finest we have ever grown.

No Rust or Mildew.

Packed light, and satisfaction guaranteed. Sample on receipt of 25 cts.

J. L. DILLON, BLOOMSBURG, PA.

Every Florist! Every Nurseryman! Every Seedman!

SHOULD HAVE OUR

DIRECTORY.

Address **AMERICAN FLORIST CO.,** 54 La Salle St., CHICAGO.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, to Cents a Line, Agate;
Inch. 51. Cent a Line, 14.00.
Cash with Order.

Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.

No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted. Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

TRADE DISPLAYS

How shall the retail florist advertise? How may he most effectively and economically bring his goods to the attention of the public, and especially that portion of the public who are most likely to become purchasers? There may be better ways than the trade displays which many of the more enterprising florists are now annually or semi-annually making at convenient seasons, but we doubt it. A really good display, including illustrations of all the latest developments in the trade, and sufficiently well advertised in the local press to bring to you as interested spectators a large number of possible buyers, or those who may become buyers if their natural love for the beautiful in nature is developed, can not fail to be very beneficial to your business, and in time return dollars for the dimes expended. Like most advertising it is in the nature of an investment, and the full benefit will not be at once returned, but in the course of time it will come. And like other advertising it may be overdone, more time may be used and expense incurred than is warranted by the possible return from the field from which you draw your trade. But suited to the circumstances, we doubt if there is a more effective and economical advertisement for the retail florist than a good trade display at a time when there is an abundance of good material at command.

In this connection we give a few descriptive notes of the trade display recently made by florist Harry Chaapel, of Williamsport, Pa.

Mr. Chaapel has adjoining and connected with his store four of his greenhouses, each 70x22, the walks in which are 3 feet wide and cemented. In these were placed in masses of color all the best plants of chrysanthemums on the place, palms being effectively placed through the houses to give a foliage contrast. The greenhouses as well as the store were all brilliantly lighted by electric light in the evening.

Mr. C. writes: "In the store the side walls, ceilings, stair case and chandeliers were artistically trimmed with the southern wild smilax and in connection with the heavier greens used the effect was very pleasing; its lasting qualities are as good or better than ground pine or laurel.

"A large canopy trimmed with white chrysanthemums with a ball of the same flowers suspended hung in a recess of the room surrounded with long needle pines and other tropical foliage. A small stand stood under the canopy bearing a bouquet of Bride roses and lily of the valley tied with wide satin ribbon, the whole illumined by a massive piano lamp with colored shade.

"Some handsome vases and baskets of

orchids, Beauty roses and other choice flowers were shown, with some fine specimen plants, in Leeksware vases, of cocos, arecas, Pandanus Veitchii, etc. On a shelf or mantel above these hung a large oil painting, appropriately draped with wild smilax, which added greatly to the general effect.

"Choice varieties of chrysanthemums in pots were grouped on a table opposite, with palms and tall needle pines as a background; in front were great bowls of cut blooms of chrysanthemums, and near the center under a glowing light were placed two handsome flat baskets filled with selected blooms of chrysanthemums.

"When these exhibitions are held at a place of business under favorable circumstances the writer would suggest that an admission fee of say 25 cents be charged, the ticket or coupon being accepted at its face value for cut flowers, plants, etc.; this would serve the double purpose of distributing your flowers and keeping the general attendance within bounds.

"The first night our best people came in large numbers and the attendance increased each evening."

The illustration, engraved from a group of photographs taken during the display, will give a better idea of the effects created than any further description. And we included in the group the photograph of the front of the store as the style of the building may be a useful suggestion to others.

ROOM DECORATIONS.—Of late these have been a very popular feature at exhibitions and they are certainly of value to the trade in making known to the general public the possibilities of the florist's art in this direction. But it seems that ideas vary as to what constitutes a room decoration. One florist recently entered in competition and his room was not only unpapered but unfurnished, and the question has arisen as to whether such can be properly called a room decoration, when placed in competition with rooms which are furnished as well as decorated, and in such condition as is usual when the florist has finished his work at a residence, for in the usual room decoration the furniture is not removed. We should like a discussion upon this point for the benefit of future competitors.

THE DIRECTOR of the Missouri Botanical Garden has issued a second announcement regarding garden pupils to be educated according to the provisions of the will of the late Henry Shaw. Two scholarships are to be awarded by the Director prior to the first of April next. Applications for scholarships, to receive consideration, must be in the hands of the Director not later than March 1. Any young florist desiring to receive the benefit of the thorough and practical education as a gardener provided for by the beneficence of the late Henry Shaw should send to the Director for the explanatory pamphlet. Address Prof. William Trelease, Director of the Missouri Botanical Garden, St. Louis, Mo.

WE HAVE before made mention of the fact that there are many books of great interest and value to the young florist and gardener in the public libraries of the larger cities, and as we believe that these can be made a decided factor in securing to those who are disposed to work for it, a higher education, we shall from time to time publish in these columns lists of the books on subjects bearing upon the pro-

fession, which are to be found in the various libraries, and which every citizen may enjoy without money and without price. The wise youth will take advantage of the opportunities that are within his reach.

TWO VERY handsome white chrysanthemum flowers were some weeks ago received from Mr. Mansfield Milton, Youngstown, O., who states they were cut from a sport from the yellow *Gloriosum*, occurring with Mr. A. N. Kay of that city two years ago. It is certainly a pretty bloom. Mr. Mansfield esteems it greatly as an early free blooming white sort.

Providence.

In the public library of Providence, R. I., are the following books on floriculture and botany:

FLORICULTURE.

- Rand, E. S. Jr. Popular flowers, and how to cultivate them.
- Bunst, R. The American flower garden directory.
- Hibberd, S. The fern garden.
- Eley, J. N. The American florist.
- Robinson, John. Ferns in their homes and ours.
- Rand, E. S. Jr. Flowers for the parlor or garden.
- The window gardener.
- Sayres, E. The American flower garden companion.
- Field, F. E. The greenhouse as a winter garden.
- Breck, J. The flower garden.
- Johnson, E. A. Winter greeneries at home.
- Henderson, P. Practical floriculture.
- Williams, H. T. Window gardening.
- Hole, S. R. A book about roses.
- Ellwanger, H. B. The rose.
- Parsons, S. B. Parsons on the rose.
- Long, E. A. Ornamental gardening for Americans.
- Warder, J. A. Hedges and evergreens.
- Anon. The famous parks and gardens of the world.
- Copeland, R. M. Country life; a handbook of agriculture, horticulture, and landscape gardening.
- Milner, H. E. The art and practice of landscape gardening.

BOTANY.

- Emerson, George B. Trees and shrubs of Massachusetts Zoological Garden.
- Gray, Asa. Structural and systematic botany.
- How plants grow.
- How plants behave.
- School and field book of botany.
- Manual of the botany of Northern United States.
- Synoptical flora of North America.
- Botany of the United States Pacific Exploring Expedition.
- Botanical text-book. v. 1. structural botany.
- Goodale, G. L. Botanical text-book, v. 2, physiological botany.
- Schleiden, M. J. The plant.
- Coulas, H. What may be learned from a tree.
- Lindley J. Vegetable physiology.
- Phelps, Mrs. A. H. L. Lectures on botany.
- Nuttall, T. Introduction to botany.
- Cooke M. C. Fungi.
- Carpenter, W. B. Vegetable physiology.
- Marion, F. Wonders of vegetation.
- Lubbock, Sir John. British wild flowers.
- Wakefield, Priscilla. Introduction to botany.
- Eaton, Amos. Manual of botany.
- Oliver, D. Elementary botany.

Bessey, C. E. Botany, for high schools and colleges.
Bailey, W. W. The botanical collector's handbook.

(Anon.) The vegetable kingdom, illustrated.

Sachs, J. von. Text-book of botany.
Lesquerex, L. and T. P. James. Manual of the mosses of North America.

Smith, J. Domestic botany.
Candolle, A. de. Origin of cultivated plants.

Palmer, J. A. Jr. Mushrooms of America.
Wood, A. A class-book of botany.
—Leaves and flowers.

Flint, C. L. Grasses and forage plants.
Johnson, S. W. How crops grow.
—How crops feed.

Herrick, Sophie B. Chapters on plant life.

Balfour, J. H. A manual of Botany.
Dawson, Sir J. W. The geological history of plants.

Hooker, Sir J. D. Botany. (primary.)
Henslow, G. The origin of floral structures.

Hartwig, G. Wonders of the tropical forests.

Cooke, H. C. Rust, smut, mildew and mould.

—Introduction to fresh-water algae, etc.
Bower, F. O. A course of practical instruction in botany.

Sachs, J. von. History of botany.
Darwin, Charles. The different forms of flowers, etc.

—The power of movement in plants.
—Insectivorous plants.

—The movements and habits of climbing plants.

—The various contrivances by which orchids are fertilized by insects.

—The effects of cross and self-fertilization in the vegetable kingdom.

Taylor, J. E. Flowers; their origin, etc.

Allen, G. The colors of flowers.
—Flowers, and their pedigrees.

Lutbbach, Sir John. Flowers, fruits, and leaves.

Harris, Amanda B. Wild flowers and where they grow.

Grindon, L. H. The phenomena of plant life.

Bailey, L. H. Jr. Talks afield about plants.

Flagg, Wilson. Woods and by-ways of New England.

—Studies in the field and forest.
Henderson, Peter. Handbook of plants.

Lindley, J. and T. Moore, editors. The treasury of botany.

Jackson, B. D. Guide to the literature of botany.

Smith, John. A dictionary of popular names of plants.

Bennett, J. L. Plants of Rhode Island.
Mann, H. Catalogue of phenogamous plants.

LaRoche & Stahl,

Florists & Commission Merchants

—OF—

CUT FLOWERS,

1237 Chestnut Street, PHILADELPHIA.

Consignments Solicited. Special attention paid to shipping.

Mention AMERICAN FLORIST.

FLORAL DESIGNS.

The help for Cut Flower workers.
162 pages, colored plates. Edition nearly exhausted; speak quick.

Address

J. HORACE McFARLAND,

Box 655, HARRISBURG, PA.

Mention AMERICAN FLORIST.

Wholesale Markets.

Cut Flowers.

BOSTON, Dec. 1.	
Roses, Ten.....	2.00
" Niphetos.....	4.00 @ 6.00
" Perles.....	4.00
" Perles, Sunsets, Woottons.....	5.00 @ 8.00
" Mermets, Brides.....	6.00 @ 10.00
" Rose, La France.....	8.00
" Am. Beauty.....	35.00 @ 50.00
Carnations, long.....	1.50 @ 2.00
Carnations, short.....	.75 @ 1.00
Valley.....	.75 @ 1.00
Bouvardia, single.....	1.00
Bouvardia, double.....	1.50
Roman hyacinths.....	4.00
Narcissus.....	1.00
Camellias.....	10.00
Smilax.....	12.50
Adiantum.....	1.00 @ 1.50
Callas.....	5.00 @ 10.00

PHILADELPHIA, Dec. 1.	
Roses, Beauties.....	2.00 @ 3.00
" Albany.....	8.00 @ 10.00
" Mermets, Brides, La France.....	5.00 @ 8.00
" Cousins, Wattlevilles.....	6.00 @ 8.00
" Hostes, Bennetts.....	5.00 @ 8.00
" Perles, Niphetos, Gondier.....	4.00 @ 5.00
Valley.....	1.00 @ 1.50
Carnations, long.....	1.50 @ 2.00
Carnations, short.....	.75 @ 1.00
Smilax.....	15.00 @ 20.00
Violets, single.....	.25
Violets, double.....	.50 @ .75
Bouvardia.....	1.00
Romans.....	4.00 @ 6.00

NEW YORK, Dec. 1.	
Roses, Bon Silences.....	2.00 @ 4.00
" Perles.....	2.00 @ 5.00
" Mermets, La France.....	4.00 @ 6.00
" Mermets, Brides.....	6.00 @ 8.00
" Am. Beauties.....	10.00 @ 15.00
" Wattlevilles, Cousins.....	6.00 @ 8.00
" Bennetts.....	6.00 @ 8.00
" Hostes.....	5.00 @ 8.00
" Beauties.....	2.00 @ 2.50
Smilax.....	1.50 @ 2.00
Carnations, long.....	1.50 @ 2.00
Longiflorum lilies.....	5.00 @ 8.00
Asparagus.....	5.00 @ 8.00
Valley.....	1.00 @ 1.50
Violets.....	1.50 @ 2.00
Adiantum.....	1.50
Adiantum plumosum.....	2.00
Roman hyacinths.....	4.00
Bouvardia.....	1.00 @ 1.50
Narcissus.....	2.00 @ 4.00
Narcissus.....	6.00

CHICAGO, Dec. 3.	
Roses, Perles, Niphetos.....	2.50 @ 3.00
" Gondiers.....	4.00
" Bon Silences.....	3.00
" Mermets, La France.....	7.00 @ 8.00
" Brides, Bennetts.....	7.00 @ 8.00
" Am. Beauties.....	20.00 @ 25.00
Carnations, short.....	1.00 @ 1.50
Carnations, long.....	1.50 @ 2.00
Smilax.....	15.00 @ 20.00
Adiantum.....	1.00 @ 1.50
Violets.....	1.00 @ 2.00
Bouvardia.....	1.00 @ 1.50
Roman hyacinths.....	4.00 @ 7.00
Valley.....	1.50 @ 2.00
Callas.....	18.00 @ 30.00

WM. J. STEWART,

Cut Flowers & Florists' Supplies

== WHOLESALE ==

67 BROMFIELD ST., BOSTON, MASS.

Mention AMERICAN FLORIST.

J. M. McCULLOUGH'S SONS,

Wholesale Commission Dealers in

CUT FLOWERS,

134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES:

Prize Chrysanthemums and Orchids:

ELLISON & KUEHN,

== WHOLESALE ==

FLORISTS,

1122 PINE STREET,

ST. LOUIS, MO.

CUT FLOWERS.

The lowest Cut Flowers, of our own growing, at cheapest market rates, shipped C. O. D. Use A. F. Code when ordering by telegraph. Telephone connections. For prices, etc., address

J. L. DILLON, BLOOMSBURG, PA.

THOS. YOUNG, JR.,

WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,

And the Choicest ROSES for the fall and winter season.

W. S. ALLEN,

WHOLESALE DEALER IN CUT FLOWERS,

36 EAST 23rd STREET, NEW YORK.

ESTABLISHED 1877.

Price List sent upon application.

W. F. SHERIDAN,

Wholesale and Commission Dealer in

CUT FLOWERS,

No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

Mention AMERICAN FLORIST.

JOHN YOUNG,

WHOLESALE FLORIST

56 WEST 30TH STREET,

NEW YORK.

A. S. Burns. J. I. Raynor.

BURNS & RAYNOR,

WHOLESALE FLORISTS,

11 West 28th St.,

NEW YORK.

E. H. HUNT,

WHOLESALE FLORIST

79 Lake Street, CHICAGO,

(Successor to Vaughan's Cut Flower Dep't.)

All Flowers in Season.

Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.

WHOLESALE FLORISTS,

27 Washing'on Street, CHICAGO.

All Cut Flowers in season. Orders promptly shipped.

Store open until 9 P. M. Sundays until 2 P. M.

ALL SUPPLIES. WIRE WORK A SPECIALTY.

O. W. Frese,

WHOLESALE FLORIST

66 Wabash Ave., CHICAGO.

Consignments Solicited.

STORE OPEN NIGHTS AND SUNDAYS.

Carnation and Violet Blooms

—WANTED.—

I would like to contract with parties

within good shipping distance, for a supply

of the above flowers for the winter.

An early reply requested.

W. E. WALLACE,

HARTFORD, CONN.

Re Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN POTTIER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1897.

MR. CHAS. P. BRASLAN, who has just returned from a trip to Boston, New York and Philadelphia, reports a general hopeful feeling in the trade. Demand for peas far in excess of supply. Little is known or thought of United Seed Co.

Ohio Law on Old Accounts.

In Letters of Advice, etc., in November 27 issue, Uncle Blackstone has fallen into an error as regards law in Ohio. The statute of limitations on open accounts is six years, and on notes fifteen years, but you cannot run an account and keep it fresh for ten or twelve years in this state. A debtor may refuse to pay for all items of more than six years' standing, but if sued and no objection is entered, judgment will be rendered for the full account. A small payment does not revive the whole account for six years.

Massillon, O. W. J. OBERLIN.

Catalogues Received.

James M. Thornburn & Co., New York, trade list seeds; Lenault Huet, Ussy France, nursery stock; George Vestal, Little Rock, Ark., nursery stock; Elie Lambert, Lyon, France, roses; Roustan Servan & Co., St-Remy-de-Provence, France, seeds; D. B. Woodruff, Macon, Ga., plants and bulbs; Beach & Co., Richmond, Ind., verbenas; Beney, Lemaud & Musset, Lyon, France, seeds; Harry Chapeau, Williamsport, Pa., Christmas greens and floral arrangements; Frederick Mau, South Orange, N. J., orchids; John E. Box, Croydon, England, seeds and bulbs; Jacques Rolland, Nimes, France, seeds; F. Barteldes & Co., Lawrence, Kans., seeds; H. G. Faust & Co., Philadelphia, Pa., seeds.

ONE OF THE exhibits of chrysanthemum plants at the Boston show was arranged by an artist, that the most artistic combinations of form and color might be secured. And a Boston Daily suggests the propriety of other exhibitors following the example set.

DO NOT FORGET that the AMERICAN FLORIST covers the whole trade. An advertisement in these columns goes to every possible wholesale buyer of florists' goods in America.

G. J. MOFFATT,
Manufacturer of
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From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 120 in length, of a crop of Liliium Harrisii in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fills in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his own use. We hear it said occasionally that Liliium Harrisii flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

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Be sure you get the genuine Liliium Harrisii. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant L. Longiflorum in Bermuda, planting it with Harrisii to increase their stock rapidly when Harrisii was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing; and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand: "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

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Hot Water Under Pressure.

Will some of the practical hot water men please inform me through your valuable paper what advantage there is in high pressure hot water heating. I wish to know the scientific point involved.

It is claimed that by having the water under pressure it will circulate more rapidly. Now I wish to know what pressure has to do with circulation of hot water in boilers and pipes for radiating purposes. When the boiler and pipes are filled with water and the pressure put on it is equal on flow and return pipes, and I fail to see how this pressure will assist the cold water in returning to the boiler. I have been working with hot water for about 24 years, during this time have had a number of boilers and many miles of hot water piping under my charge, and I have always understood that water circulated by gravity, that is, cold water being so much heavier than hot it always forces its way to the bottom.

During the last 15 years I have been a believer in overhead heating and have had it put up in several houses. Now if pressure had anything to do with circulating the water how is it that the water always works so much better in the overhead pipes than it does in the pipes under the benches?

By heating the pipes overhead there is always a pressure under the benches, and according to pressure theory those pipes under the benches ought to work much better than the pipes overhead, but this is not so.

Three years ago I put a little coil boiler in my five-roomed dwelling house and heated the rooms with hot water, using 1½-inch steam pipe, that is giving me great satisfaction, and in this I have another illustration of the pressure system.

My coil boiler is erected in the cellar and from the boiler have two upright stand pipes 1½ inches each, flow and return, on these I have two Ts, one on each pipe to heat the lower rooms. Immediately above the T on the flow pipe I have a globe valve, this is to regulate the upper story, and I find that if I open this valve about one third of a round it is sufficient for the upper part of the house and it opened more than this it will take all the heat to the upper story.

The pipes in the upper story are about 10 feet higher than those in the lower story; this would give the lower pipes nearly eight pounds pressure, but still the upper pipes work much better and would take all the heat from the lower ones if there were no valve to stop it from going up.

Would like to get other opinions on the subject. H.

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ABSOLUTELY FREE FROM DISEASE.

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Mammoth, strong	\$4.00 \$35.00
General Collection	3.00 25.00
Rooted Cuttings, Mammoth	1.25 10.00
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¾-inch pots, \$5 per hundred; \$70 per thousand.

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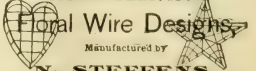
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For Amateurs to Read.
For you to Profit By.

My Dear Sir:

The more interest your local customers take in the culture of plants, indoors and outdoors, the more will your trade increase.

Sell them the "best" in garden literature, just as you do in plants, and your trade is secure.

We have sent you a copy of the Christmas Garden (if not received ask for another). Look it over carefully, and

we know you will say it is easily the "best" gardening magazine in the world.

The price is \$2.00 a year. If you will act as our agent we will send you posters and circulars for, and allow you 75 cts. commission on each subscription you send us. To get this price (\$1.25 net), send us two subscriptions on your first order.

Copies of that "Window Gardening" supplement with your card on margin in red ink, for \$2.00 per hundred copies, (less than half cost).

Yours sincerely,

THE RURAL PUBLISHING CO.—E. H. L.

Time Building, NEW YORK.

THE AMERICAN GARDEN is a magazine for all who love nature, flowers, fruits and gardens. it is bright, energetic, useful. Many new features will be introduced in 1891, we can name only a few here:

AUTOMATIC GREENHOUSES: that is, automatic heating and ventilation—our inventions, which have been given to the public gratis—will have further experimenting in capable hands.

COLORÉD PLATES, beginning with a superb 15-color plate of seedling Begonias in January, will be a striking feature of the year.

JAPANESE EDIBLE PLANTS. Running through the year, by Prof. C. C. GEORGEON, for three years in the Imperial College at Tokio. The most important contribution ever made to our knowledge of Japanese horticulture.

FRUITS AND PLANTS FOR THE COLD NORTH.

NEW AND INTERESTING FLOWERS AND PLANTS in Kew and other parts of Europe.

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Utica, N. Y.

The show of the Utica Florist Club, which closed Saturday evening, November 22, took well with the flower loving public, and as an experiment has demonstrated the fact that the club will have the support and encouragement of the people in any enterprise of the kind they may undertake in the future. Oneida Hall was far too small for the display that was made, but taken all in all the arrangement of the plants and flowers was good. Among the principal exhibitors who showed extra good taste in the arrangement of their exhibits might be mentioned: Baker with a tastefully set mantel and general assortment; Crowe with a window awning of smilax, designs and bridal bouquets; Mathews, orchids and foliage plants; Seitzer, chrysanthemums, palms, etc.; Chatfield, general assortment; Bigelow, nurseryman, a fine display of fruit; last, but not least, Pres. Jonathan A., the committee of arrangements and balance of the club showed new and second hand Derby hats, which were worn continuously during the show. Room for improvement gentlemen.

There is some talk of a spring exhibition; this, however, will hardly materialize, as the fall show is now a fixed fact for the future, and two shows in one year would be overdoing the business. Next fall the club will offer premiums which will put the members on their mettle and will be a step in the right direction. LLEW GAD.

The Phyllocactus.

I have in my conservatory a plant of the phyllocactus (night blooming) which is now bearing its third crop of bloom since April last. During the month of May it produced nineteen blooms, eleven of which opened in one night. The blooms were six inches in diameter and perfectly white. In August following it put forth eleven blooms, six of which were out at one time, and at present it has the third crop of buds, seven in all, which are maturing rapidly. The plant stood in the conservatory all season and was not moved. It is a large plant grown from a single stem and is about six feet high. The frequent blooms produced by this plant is novel here, and as it may be new to others I submit the statement.

Butler, Pa.

W. H. H. RIDDLE.

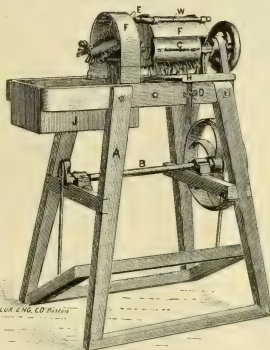


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Rusty, Mould Covered and Dirty Pots in

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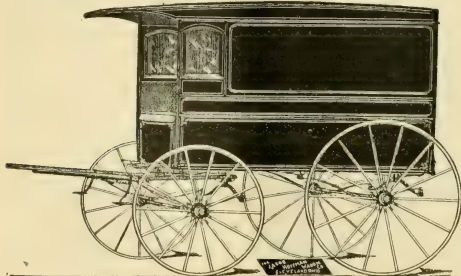
That is Rust Proof for Iron Pipes and retards no heat.

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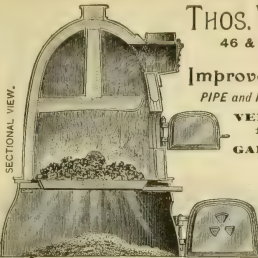
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Cleveland, O.

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A NOTE from Mr. Critchell, received November 25th states that while the Cincinnati show was a decided success artistically it was a failure financially.

FORT SCOTT, KAN.—Mrs. A. S. Patterson has added two houses this fall, each 12x45.

LAKE GENEVA, WIS.—The Lake Geneva Floral Co. has begun business with C. H. Hammersley as manager.

NEW HAVEN, CONN.—The New Haven Chrysanthemum Club did not give an exhibition this year. The one given last year was not a financial success.

LYNN, MASS.—The Houghton Horticultural Society gave its first chrysanthemum show the afternoon and evening of November 22. A very excellent display was made and the exhibition was a decided success.

EVANSVILLE, IND.—Thanksgiving trade was the best we ever had. There was not enough roses to supply the demand, and as a consequence the better chrysanthemums sold at good prices, ranging from 50 cents to \$1 a dozen.

HARTFORD, CONN.—The recent chrysanthemum show was a success financially as well as artistically. One excellent feature was the promptness with which all the exhibits were placed in position, avoiding the confusion which always ensues at the last moment when the exhibitors are behind time.



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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VI.

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Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; Wm. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. BUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

Florists' Hail Association.

Insures greenhouses against damage by hail.
JOHN G. ESLER, Secretary, Saddle River, N. J.

Florists' Protective Association.

Gives information to members regarding the financial standing and business integrity of those in the trade.
H. B. BEATTY, Sec'y, Oil City, Pa.

American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LUNDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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MR. JOHN THORPE was confined to his bed several days last week as a result of overwork during the exhibition at Madison Square Garden, New York, but is now able to be out again.

SEND in your observations on the management of exhibitions, with suggestions for the improvement of existing methods. We trust there will be a full discussion upon this interesting topic.



Experiments in Chrysanthemum Culture.

BY MR. H. BRISCOE-IRONSIDE

[Read at the English National Chrysanthemum Society's Conference November 11 and 12, 1890, and printed in the London Journal of Horticulture.]

The text of my paper affords, as you will observe, considerable latitude, of which I propose to take full advantage. There exists among us a considerable divergence of opinion as to the cultivation of our favorite flower, and it seems to me that on this point we are never likely to agree fully. The varied conditions under which we work, such as those of aspect, soil, water, etc., must so considerably affect the growth as to render results, attributed to the culture, inconclusive; moreover, we adopt many and dissimilar methods, and nevertheless attain fairly equal achievements—one grower being successful one season, and his opponent the next. Hence, with the view of improving our plants we resort to experiments, and some of my own experiments in this direction I shall now have the honor of briefly describing.

I have pursued various systems of cultivating the chrysanthemum, such as striking in cold and heated frames, and have obtained more satisfactory results when the cuttings have been struck in frames placed in a moderately heated glass house, and removed when rooted to cold frames. I have found deep pots preferable for blooming in, as better drainage can be secured, the plants are safer against saturation during heavy rains and are more easily top dressed.

Last year I experimented with fifty small plants flowered in 32-size pots. They were led with various chemicals and manures, both singly and in combination. To express an opinion on the result is a most difficult task, as I found it impossible to adhere strictly to one chemical or one manure, except in the case of horse manure. I came to the conclusion, however, that half a dozen plants which were successively given liquid horse manure, soot water, Peruvian guano and fish manure, and occasionally carbonate of ammonia, showed the most satisfactory results. I would here mention, more as a curious circumstance than of any practical importance, that in the case of two plants which had occasional waterings of dissolved sugar, greatly diluted, a portion of the sugar reappeared upon the foliage. This I collected and dried and

on tasting it I could detect no alteration. At the same time the leaves on which the sugar appeared changed to a deep red, resembling in color the foliage of an *Ampelopsis Veitchii* in autumn.

I particularly observed the effects of the following forms of ammonia given to plants, viz: sulphate, phosphate, nitrate, muriate and carbonate, and it seemed to me that although the color of the foliage was considerably deepened, especially by carbonate of ammonia, the blooms did not last so long, and the petals were not so crisp nor firm, a condition of things greatly militating against successful exhibition. The first result was most noticeable when the plants were liberally supplied with ammonia during the flowering period. I have found, however, when the buds are fixed and rainy weather sets in, thus preventing the usual waterings for some time, that carbonate of ammonia at the rate of an ounce to three gallons of water, giving half a pint of the mixture to each pot, has maintained a healthy tone in the foliage; nevertheless at such a time when the air is moist and the light limited, I venture to think that it is advisable to avoid as much as possible forcing the growth. The application of carbonate of ammonia produces an almost instantaneous result, which may be readily observed in the following manner: A plant (say Golden Dragon), the foliage of which has a tendency to turn yellow, is selected, one or two leaves removed and placed in water to keep fresh; carbonate of ammonia is now given to the plant and the leaves thereon compared a few hours afterwards with those which were previously cut off, when there will be found a conspicuous difference in their color.

My experience has not led me to consider top-dressings of dry manures advantageous, as it has seemed to me that the surface roots are damaged thereby, and the manurial contents not evenly distributed. As witness of this I daresay that some of you have noticed that after top-dressings of artificial manures have been applied, and suckers immediately under the soil have become soft and pulpy, which in conjunction with the constant pinching of the suckers up to the blooming period has resulted in the formation of a compact, unnatural mass at the most vulnerable part of the plant. I suspect this is a cause for a scarcity of root cuttings later on. We are doubtless all alive to the fact that it is advisable to feed moderately plants having small and thin leaves, and that it is a safe guide to generally consider all such plants as belonging to the category of weak varieties. I have observed that the life of the leaves of this section when fully exposed to the sun's rays has been of comparatively short duration, and that the blooms have been considerably improved when these plants have been placed in a partially shaded position.

Continually watching the foliage has been the most useful guide to me in the cultivation of the chrysanthemum. We know that when the cuttings are rooted a yellow appearance invariably denotes insufficient pot room, and after the plants have been finally potted that a similar condition betokens insufficient nourishment; also that when the midrib of the leaves becomes contracted and the foliage curls a too generous treatment has probably been the cause. This last feature I have frequently observed in cut-back plants, which, as might be expected, will not stand the same amount of feeding as those naturally grown.

One of the most difficult problems in the culture of the chrysanthemum, and that which requires a vast amount of experience, is, I suppose, "the timing of the blooms" for exhibition. The following system has enabled me to exhibit blooms in fairly fresh condition three, and in some cases four, weeks after they have fully developed. Take a plant, the flowers on which are three-fourths expanded, remove it to a dark room or shed, and when a bloom has fully opened cut it off with, say, about 18 inches of stem; immerse immediately in a jar or tumbler of water, and cut off underneath the water about two inches of the stem. I imagine that in this way the air is prevented from penetrating the stem, and hence the access of the water to the bloom is unimpeded. A small quantity of charcoal placed in the water obviates the necessity of continually changing the same. I should mention that I afterwards take off a small piece of the stem, occasionally, this operation being likewise performed under the water.

With regard to mildew, I have found that sulphide of potassium, at the rate of two ounces to a gallon of water, syringed on the plants, has been the most effectual remedy, but when housed I consider dry flowers of sulphur dusted on the foliage preferable. Mildew generally begins during the months of August and September, sometimes in the latter part of July, and I have reasons for concluding that it originates from the varying temperatures for which these months are conspicuous, the days frequently being extremely hot and nights cold and misty. To confirm, in my own mind, my conjecture on this point, I housed half the plants of *Val d'Andorre*, *Triomphe de la Rue des Châlets*, *Meg Merrilies*, and *Mr. Ralph Brockebank*, which are notoriously subject to this disease, at the end of July, the other half being housed at the end of September. No trace of mildew appeared on those first housed, while the others suffered in the usual manner. It will be found on taking two leaves of equal length (they can of course be cut to weigh the same), the one being healthy and the other showing signs of mildew, and burning them separately, that the ash of the former is heavy. This, I imagine, proves that the mildewed leaf contained more liquid matter than the other. It is not inconsistent, therefore, to conclude that defective or checked transpiration is the cause of mildew.

To a similar cause I venture to attribute damping in blooms, as a like result is obtained from the last experiment if blooms be substituted for leaves. The fact of the petals giving off water in the same way as leaves, though, of course, in a smaller degree, must not be overlooked. Damping, I have observed, is generally confined to blooms grown for size, on plants which have lost a great deal of their foliage from a too early ripening. I am inclined to think that overfeeding has



CHRYSANTHEMUM MRS. I. D. SAILER

little or nothing to do with damping, inasmuch as I have experienced from overfeeding exactly the opposite result—viz.: the bud displaying a dry rot, and refusing to develop at all. I suppose a too early ripening of the plants is due to an exposed position, where they have practically no shade and no shelter from the summer sun. I placed some plants so as to be shaded from the sun between the hours of 11 a. m. and 2 p. m. during the months of June and July, and I fed them twice as liberally as those fully exposed. The former when housed were ripened about half way up the stem, and the result appeared to afford weighty testimony to the validity of my conjecture. This was especially noticeable among the weak varieties. Bearing on this point in conclusion, I would draw your attention to the fact that whereas warmer countries easily ripen seed, in which we practically fail, they cannot produce blooms such as those exhibited by the National Chrysanthemum Society.

Various Floral Designs.

We present herewith an engraving of a group of photographs of floral designs. The photographs have been sent us by subscribers in different sections of the country, from time to time, and while each might not be considered worthy of an individual illustration the group occupies but little space and some of our readers may receive a useful suggestion from some one or more of the designs shown.

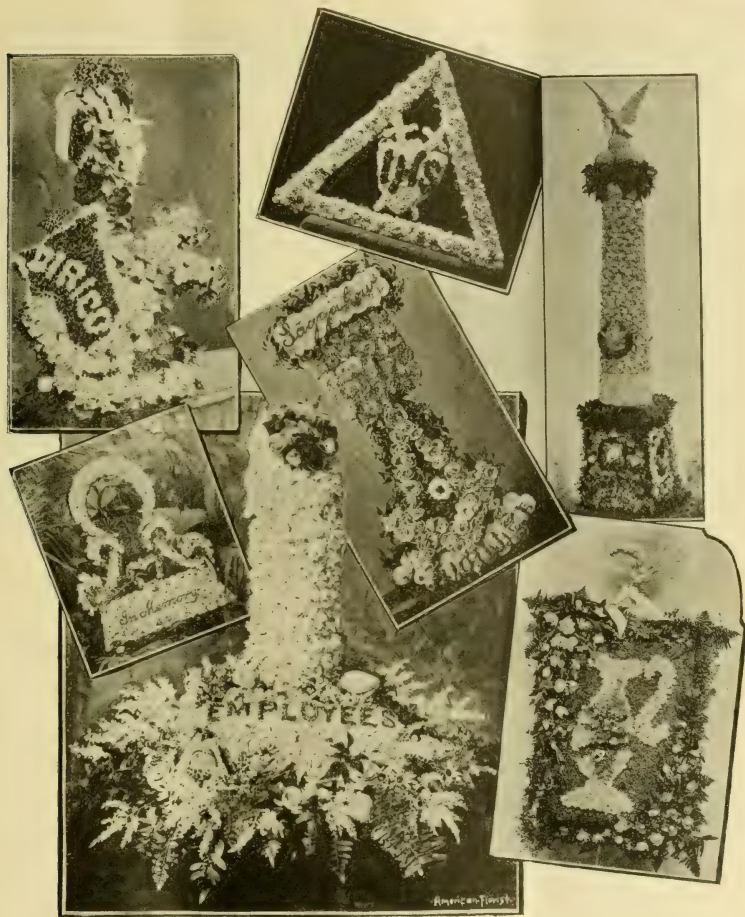
Chrysanthemum Mrs. I. D. Sailer.

We present herewith an illustration of this chrysanthemum, which took the "Veteran Prize" at the Philadelphia show.

It is an incurved Japanese, delicate pink in color and was raised and exhibited by W. K. Harris. We are indebted to A. Blanc, the Philadelphia engraver, for the use of the cut.

The Chrysanthemum Bee-fly.

In last issue of *AM. FLORIST* I read an article under the head of "Chrysanthemum Bee-fly," written by W. F. Brother W. F. must have taken a dislike to that interesting little insect judging from the names he applies to it ("dirty creatures," "loathsome creatures"). I feel it my duty to speak in its defense. I have not yet found them either dirty or destructive. In the autumn of 1888 I had a good many seedling chrysanthemum plants from seed I bought from a reliable seed house in New York, among them I had about every color known in the chrysanthemum, but every flower was as single as the common field daisy. In the same house I also had some of my named varieties. We had that year vast numbers of the fly. Late in the season I found on Chrysanthemum Mrs. F. Thompson 8 or 10 flowers bearing seed which I saved and sowed in due season. Last year (1889) 80 of them flowered, about one fourth of them were worth a place in any general collection, only one bearing a striking resemblance to the seed parent, 17 were judged as better flowers than



VARIOUS FLORAL DESIGNS.

the well known seed parent. I flowered them again this year, and have now selected eight that stand equal with the best catalogued varieties. In the selection made for next year's flowering there are yellows, red and various shades of pink and no two resemble each other in style of flower or color.

Now, Mr. W. F., I would like to have you tell the readers of the AM. FLORIST of one single instance where the camel hair brush has been as effective in cross-

ing the chrysanthemum as the little insect you speak so disrespectfully of was in the work it did for me.

Mr. A. Veitch of this city wrote an article on the work of the fly on this lot of seedlings mentioned above, which was printed in the July 2, 1890, number of *Forest and Garden*. He also sent specimen of fly to a friend in New York for its name and origin. The reply was probably it is *Meredon bardus*. Soy, its larva is aquatic and may live in the water

tanks about greenhouses. Quoting from *Forest and Garden*: "Dr. John Hamilton of Allegheny, Pa., sent to Mr. J. B. Smith, specimen of the fly for determination. He stated that certain growers of seed had bred this fly, and that the secret of their success was in the fact that by the aid of this insect they secured the most perfect cross fertilization. Dr. Hamilton says further that seedsmen who cultivate this fly are very averse to give any information concerning it." WM. J. ROWE.

The Chrysanthal Etymon.

The appellation "chrysanthemum" was applied by the Greeks to some families of plants whose flowers presented a cross-way arrangement of florets, centuries before the symbolism of the cross had arisen. It seems to have been arbitrarily bestowed upon this plant by its introducers into Europe who may have been influenced by the prestige which its dominant root element conveys in Christian lands. Be this as it may, it is a burdensome word to those who must speak and write it incessantly, but as it has been long accepted, we must follow the sensible rule of philologists in such verbal changes as the exigencies of circumstance are ever suggesting, by retaining the fundamental root symbols to mark derivation and significance. All that is practicable to achieve in this case now is to substitute the two root syllables "chrysanth" as the economic equivalent of the tedious original, "chrysanthemum." We thus gain flexibility, avoid prolixity and all necessity for using the boorish substitute "mum," which is a common English word already appropriated to the buffoon and his low-bred ways, and for that reason inappropriate to this graceful newcomer into the esthetic arena.

The plant then becomes a "chrysanth" (accent on the first syllable); the cultivator a "chrysanthist," and the structure devoted to growing it, a "chrysanthry," etc.

The appeal is made to practical chrysanthists to accept this useful terminology for they are the arbiters in all philologic changes affecting their professional terms, and the motive which urges this interference is that which underlies all intelligent progress, the desire to do what is to be done with the least expenditure of energy, that is consistent with ready intelligibility and gracious phraseology.

CONNECTICUT.

Chrysanthemum Seed.

It would benefit a great many others as well as myself if Mr. John Thorpe or some other expert chrysanthemum grower would tell us how to ripen chrysanthemums so we could grow our own seed. I have about 130 varieties and would like to know what temperature and what special care is necessary to raise seed.

Glens Falls, N. Y.

A. J. BINLEY.

Chrysanthemum Show at Leipzig.

The illustration, which we have reproduced from Moller's *Deutsche Gärtnere Zeitung*, gives a general view of the recent chrysanthemum show at Leipzig, Germany. The general effect of the arrangement is certainly excellent.

Minneapolis.

In the public library of this city are the following books of interest to florists:

BOTANY, PLANTS.

Bailey, W. W. Botanical collector's handbook.

Baldwin, H. Orchids of New England.

Balfour, J. H. First book of botany.

—Second book of botany.

—Botany and religion.

Bentham, G. Handbook of British flora.

Bressey, C. E. Botany.

Braithwaite, R. Sphagnaceae, or peat mosses.

Candolle, A. de. Origin of cultivated plants.

Chapman, A. W. Flora of southern U. S.

Cooke, M. C. Freaks and marvels of plant life.

—And Berkeley. Fungi.

Darwin, C. Climbing plants.

—Different forms of flowers and plants of same species.

—Cross and self-fertilization in vegetable kingdom.

—Insectivorous plants.

—And F. S. Power of movement in plants.

De Vere, M. S. Leaves from the book of nature.

Dragerdorff, G. Plant analysis.

Eaton, D. C. Ferns of North America.

Figuier, L. Vegetable world.

Gray, Asa. How plants behave.

—Elements of Botany.

—How plants grow.

—Lessons in botany.

—Structural and systematic botany.

Heath, F. C. Fern world.

Henderson, P. Hand book of plants.

Melmsley, W. B. Hardy trees, shrubs, etc.

Henslow, Rev. G. Origin of floral structure.

Herrick, S. B. Wonders of plant life.

Hooker, J. D. Botany.

—W. J. Century of ferns.

Hulme, F. E. Familiar wild flowers.

Hellerman, W. A. Plant analysis.

Koerner, A. Flowers and their un-

hidden guests.

Loddige's botanical cabinet.

Le Maout and Decaisne. Botany.

Lesquereux and James. Mosses of North America.

Loudon, J. C. Arboretum et fruticetum Britannicum.

—Encyclopedie of plants.

MacAlpine, D. Botanical atlas.

MacNab, W. R. Botany.

Maudslayi, B. Botanical garden.

Meehan, T. Native flowers and ferns of U. S.

Michaux and Nuttall. North American sylva.

Muller, H. Fertilization of flowers.

Paxton, Sir J. Botanical dictionary.

Paxton's magazine of botany.

Pickering, C. Chronological history of plants.

Rand, E. S. Jr. Bulbs.

Robinson, J. Ferns, in their homes and ours.

Sachs, Jul. von. History of Botany.

Smith, J. Dictionary of popular plants.

—Domestic botany.

Sowerby, J. E. English botany.

Wolle, F. Desmids of the U. S.

ENTOMOLOGY.

Darwin, C. Formation of Vegetable mould.

Figuier, L. Insect world.

Insect architecture.

Insect miscellanies.

Jager, E. Life of North American Insects.

Lubbock, Sir J. Ants, bees, wasps.

—Origin and metamorphoses of insects.

Manton, W. F. Insects.

Michelet, J. The insect.

Murray, A. Economic entomology, aptera.

Packard, A. S. Guide to study of insects.

—Half hours with insects.

Say, T. Entomology of North America.

HORTICULTURAL.

Baltet, C. Grafting and budding.

Downing, A. J. Landscape gardening.

Eggleston, N. H. Handbook of tree planting.

Elliott, F. R. Handbook of landscape gardening.

Ellwanger, H. B. The rose.

Beeton, E. O. Work in garden and

greenhouse all the year round, (Beeton's compl. manual for gardeners.)

Henderson, P. Gardening for pleasure.

Hibberd, S. Amateur's rose book.

Hobday, E. Cottage gardening.

Kemp, E. How to lay out a garden.

Kern, G. N. Landscape gardening.

Oakey, A. F. Home grounds.

Parsons, S. B. The rose.

Rand, E. S. Popular flowers.

Robinson, W. Parks, etc. of Paris.

Scott, F. J. Suburban home grounds.

Smith, C. H. J. Parks and pleasure grounds.

Society of American Florists.

The Executive Committee will meet at Toronto, Ont., January 13. One of their most important duties will be the preparation of a program for the Convention of 1891, which will take place at Toronto. Members of the society can materially assist the committee in this work by forwarding to the Secretary at any time previous to the meeting any matter or topics which they think worthy of discussion, or of being brought before the Convention in the form of essays. Any suggestions in this line will be thankfully received by the Committee.

WM. I. STEWART, Sec'y.

Chicago.

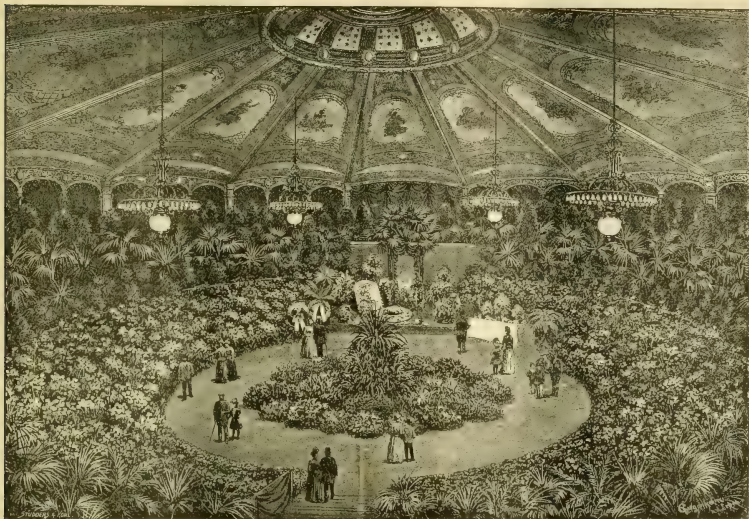
The new greenhouses at Lincoln Park are nearing completion. Some of the houses are already glazed and a force of men is engaged putting the roofs on the others. There are fourteen houses in all, each about 100 feet long, four having a width of 20 feet and ten a width of 11 feet. The large palm house will not be erected until next summer, though the foundation will be laid soon, stone for the same being already on the ground.

The statue of the bronze geraniums will be unveiled next May. The great bronze figure is already in position and the finishing touches are being added. The great botanist is represented as returning from a collecting expedition. He carries a few flowers in his hand and a book of specimens under his arm. The statue is 14½ feet in height and weighs 9,000 lbs. The total height including pedestal is 39 feet. Around the pedestal will be placed four allegorical figures. The total cost will be about \$25,000. The monument is situated a little northwest of the new greenhouses.

In the park greenhouses Head Gardener Stromback has a batch of chrysanthemums just coming into bloom. They are in 4-inch pots and were propagated last August from trimmings from the regular batch of plants. Among them is a plant of L. Canning bearing five very fair flowers. They are admirable little pot plants and would undoubtedly sell well for house plants, their small size being rather in their favor for this purpose.

The greenhouses are now pretty well filled with bedding stuff potted off in the last month or six weeks. All the cuttings taken from outdoor plants in the fall are in pots except a late batch of lobelia now being potted. The lobelias are for stock to propagate from later on. The young geraniums have already made some growth and as room is scarce workmen are pinching off the large lower leaves to admit light and air and thus keep them from becoming "drawn" while crowded.

The down town florists report trade as very dull. Several say that last week was the poorest known for many years at this season of the year. The quality of the flowers coming in is also below the



CHRYSANTHEMUM SHOW AT LEIPZIG, GERMANY.

average and there is none too much of it even with the poor demand. The falling off in trade is quite remarkable in view of the fact that all during the fall and up to about two weeks ago business was excellent, even better than usual at the season. The florists are anxiously looking for a reawakening. Florists farther away from the business center seem to have had better trade lately than those who are down town.

The demand for American Beauty roses grows apace, but unfortunately there is only a limited number of blooms of good quality coming in at present.

Long stem carnations are in brisk demand, as is usually the case immediately after the close of the chrysanthemum season.

It is now reported that the horticultural department of the World's Columbian Exposition will not be organized until next spring.

The first regular meeting of the Horticultural Society of Chicago will be held early in January.

New York.

Business continues good, but the retailers say the opening of the season lacks the brilliancy of former years. The condition of the financial world cripples our business.

Am. Beauties are coming in very fine and are selling well. Carnations are very plentiful this year and of great variety with Lady Emma, Lizzie McGowan, Grace Wilder and Buttercup in the lead.

Smilax is also plentiful and in good demand. Paper white Narcissus and

Roman hyacinths are coming in in large quantities.

George Irlam has opened a general florist's supply and commission agency at 70 Cortlandt St.

Geo. Stumppis making a special display at his fine store on Madison Ave., the design is a Christmas window the flowers used being all red. In the rear are fine specimens of camellia trees laden with bloom, underneath which are placed rows of poinsettia. Groups of Anthurium Andreanum are banked on both sides, amongst which are placed red globed electric lights; below these are some fine specimen dracaenas flanked by clumps of the "Seabrook Lily" (*Vallota purpurea*); some fine plants of Adiantum Farleyense adorn the center, among which is placed a novel Christmas basket trimmed in red surah filled with anthuriums and poinsettia, the edge being trimmed with English holly berries, with long streamers of cardinal ribbon falling gracefully from the tall handle amongst the flowers. Dainty baskets filled with Lady Emma carnations with their own foliage are dotted here and there among the ferns. Some novel arrangements in the shape of English holly wreaths and crosses tied with large loops of cardinal ribbon hang at the sides and complete one of the finest window exhibitions ever seen here.

Thorley recently displayed a beautiful basket design. It was a French rush basket trimmed with sea green surah and ribbons of the same color, and filled with *Cypripedium insigne* and Giant mignonette with sprays of English ivy arranged around the edge.

John Thorpe intends organizing the

florists here for the purpose of holding a grand and novel floral exhibition early in the spring.

JOHN YOUNG.

Boston.

The chrysanthemums have about come to an end and the rose growers are happy. Their delight at this fact is only equalled by their satisfaction at the near approach of Christmas. The cold weather which has been remarkably steady, considering its earliness, has assisted materially in a gradual advance in prices.

Roses are quoted at a considerable advance over last week's figures. The quality of the general stock has also improved. Violets have already got the shadow of the holidays upon them, and if you don't like the price asked the only answer is, "All right, I'll keep them on the plants till Christmas and they will be bigger blooms."

Dealers in palms and decorative plants report sales very much larger this season than ever before. *Nephrolepis* in two or three varieties and *Ficus elastica* are among the most salable plants for house decorations, and they probably give more general satisfaction for this purpose than any other plant.

Some magnificent clusters of *Luculia gratissima* were shown by Mr. F. L. Harris at Horticultural Hall December 6. This superb plant with its noble foliage and deliciously scented flowers, although an old favorite with the English gardeners is practically unknown here to the public and to the general florist.

The new rose "Waban" was also exhibited at the same time by E. M. Wood

& Co., and the blooms being very large and perfect showed to better advantage than ever before.

The annual supper of the 'Gardeners' and Florists' Club will take place in January. It will probably occur at the Quincey House.

The wife of Mr. J. F. Hansen, the old and well known florist of Winchester, died recently.

Mr. Wm. Robinson and A.C. Bowditch have been added to the plant committee of the Mass. Hort. Society. W. J. S.

Philadelphia.

As a matter of course the florists of Philadelphia could not let such an event as the election of one of their members to the Legislature pass by without making note thereof, and it occurred to them that a complimentary dinner would be about the right thing. On the subject being broached everybody joined in and last Friday evening there gathered about the festive board some 80 odd members of the craft.

The feast was spread in the lower part of Horticultural Hall, the tables being handsomely decorated with plateaus of flowers and the platform was arranged with palms and plants in bloom.

The menu presented had a political smack to it. It is given in full below:

Oysters. Mont. Co. Clams.
Soups.
Consomme a la Kickers.
Purée of Mugwumps.
Fish.
Revenue Suckers. State House Punch.
Quay's Weak Fish.
McKinley's Flounders.
Cold Dishes.
High Tariff Salad. Forre Bill Cold Slaw.
Extract Cold Day.
Republican Claims Mill.
Game.
Political Faro. Free Trade Euchre.
Poker for Revenue Only.
Bungtown Speculation.
Roasts.
Roast Sore Heads.
Candidate Well Roasted (Other fellow).
Ballot Boxes Well Stuffed.
Monopolists' Hayseed Dressing.
Entrees.
No Terrapin on Toast.
"Reed" Birds, Good Count.
Straight Ticket Croquettes.
Harrisburg Entree.
Pastries and Puddings.
Boodle Pie (very rich).

Legislative Pudding.
Farmers' Alliance ("Plum Duff").
Capitol Pie, rose leaves, in "Brunner" and "Luizet" smothered, very fine.

Liquors.
Prohibition Punch.
Old Burton, 13 majority (one of the finest).
Old Bourbon Straight.
Our Favorite, no stickers.
Fruits and Nuts.

"Large Head," served to-morrow morning.
Candidates' Chestnuts.
Broken Promises, etc.

Mr. Burton Craig presided and made a capital address, in which he pointed out a course by which the society can be relieved of nearly \$2,500 a year in taxes, this Mr. Burton will try to see carried out by fathering a bill to exempt the society's property from taxation.

Mr. Burton followed in response and wanted to say that his election was an accident, but then as all really good men are modest, naturally John is also of a

retiring disposition, but it was a case of the office seeking the man and no accident, and the people of his district will always be proud of their choice.

After Mr. Burton's address the evening was given up to fun. There were songs and speeches. Hugh Urquhart played the bag pipes and John Black danced the Highland fling and the sword dance. John Willard played xylophone solos. Master Harry Wright sang a song written for the occasion which was very well received. Daniel Farson's remarks were great, and everybody helped Mr. Lonsdale to sing the Grand Old Duke of York. Robert Kitz gave a little ledger-dance, and others sang and made speeches. Everybody had a good time and the occasion will long be remembered by those who were fortunate enough to be present.

Business has been better the past week and prices are advancing. Roses La France, Mermets, Brides, Albanys, Guilds, 8c; Perles, Gontiers, 4c; Hostes, Cusins, 6c; carnations, \$1.60 per 100; violets, 5c to \$1. There is no good valley about it does not seem to have kept well over the summer, still they ask 8c for it.

There is a good market here for double violets, as any good ones are eagerly bought up on their arrival at the commission houses. One half the violets that come to this market are picked before they are ready. If the growers would only wait until the flowers are fully developed before picking they would sell easier and command better prices. And if growers would stand the stuff that is to be shipped early in the morning, in water over night, it would be fresh and crisp and ready for immediate use. So often it is not cut until morning and generally in a hurry so as not to miss the train and when the store man gets it it has to be put into the ice box for the best part of the day to freshen up. One would think every grower ought to know these things, but they have to be told again and again, some day we hope to see a change for the better.

Mr. Lonsdale's paper on the carnation read before the Florists' Club at their last meeting, was very interesting and instructive. He exhibited cut blooms of about fifty varieties. He has great faith in the future of the carnation.

A. Blanc & Co., the collectors and exporters of cacti are now filling an order for cacti amounting to \$8,000. This firm now has 15,000 feet of glass devoted to succulents. J.

Marketing Cut Flowers.

I have been much pleased with Mr. C. B. W.'s able paper on marketing cut flowers. His plan seems a satisfactory solution to our difficulty in getting what we order and getting the proper returns for our consignments and it might be made to work nicely in the smaller cities. This plan, which for convenience we might call the "Inspector system," would be found much more expensive for the larger cities. The inspector's warehouse would be a tremendous expense and a great drawback on the rapid transaction of business. In short, too great a tax on the trade.

But there is one feature of the inspector plan which I feel sure would be of immense benefit to both growers and dealers. I mean the dividing of roses into first and second quality and culls, carnations into first and second quality, and so on with other flowers when grown extensively.

This could be accomplished by the Florist Clubs in the different cities. A resolution could be adopted by which the

members of the club would bind themselves to try the plan for three months. Then a copy of the resolution could be sent to each commission house in the city with the request that they give the plan a three months' trial. Each commission house would, of course, have its own standard of excellence instead of a common standard as in the "Inspector system," but the dealers would soon learn just about what A or B meant by first class Mermets or Brides and would buy accordingly.

Were this plan adopted and carefully carried out, I feel confident it would remove one great objection to the commission system and would be of great benefit to the commission men and to the growers who consign to them. Speak out, gentlemen. What do you think?

JOHN WELSH YOUNG.

Selaginellas.

Among the three hundred or more varieties included in this interesting family there are many sorts of value to the florist, as nicely grown young plants may be mingled with ferns in the arrangement of small ferneries with very happy effect, and providing the selaginellas have not been grown in too close and hot an atmosphere they will stand such exposure fully as well as some of the ferns now used for the above purpose. Of course it is well understood that there are some varieties of selaginellas that do not flourish unless grown in a hot, moist house, and it is equally well understood that such varieties are of little value to the average florist, as he can seldom make use of them except through an occasional order from amateur establishments where a collection of such plants may be forming.

The few varieties to which reference will be made in these brief notes are not, however, of such character, but are sorts that are easily handled and likely to prove useful, their chief requirements being a light, open soil composed of fibrous peat and sand with small proportion of loam, moderate shade and a temperature of 55° to 60°, in fact just about the same treatment that is accorded ferns that are grown for a similar purpose, with the exception that the soil for the selaginellas is lighter. And as a large ball of earth is frequently a disadvantage (or rather an impossibility) in filling small ferneries, it is advisable that they be grown in as small pots as possible, renewing the stock from time to time by means of division, so that throughout they may be compact and kept in good shape.

The selaginellas are also very effective as exhibition plants, and if a few specimens are required for this purpose the best plan is to put several small plants together in a 12 or 14-inch pan, when the desired result may soon be attained.

The following varieties may with one exception be divided into two classes, caulescent and stemless, the former having stiff upright stems which bear foliage more or less like that of ferns, while the second or decumbent class creep over the surface of the ground and emit roots from almost every joint.

The exception to this classification noted above is *S. Martensii*, this belonging to what is known as the flabellate section, and having creeping stems which produce large strong looking branchlets that are more or less erect in habit.

Among the upright growers *S. Vogelii*, better known as *S. Africana*, is among the best, the stems rising to a height of one foot or more, the general outline of the frond being triangular, and the color



DEUTZIA CANDIDISSIMA FLORE PLENO

(REPRODUCED FROM JOURNAL OF HORTICULTURE.)

dark, glossy green. This is of African origin and has been in cultivation for many years.

S. filicina (or *S. haematodes*) is another remarkably handsome species, which in a large plant frequently produces fronds 18 inches in height, the latter having reddish stems which add much to its beauty.

The name *filicina* seems specially applicable to this species, for it has a decidedly fern-like aspect.

S. Lyallii is also an excellent sort and bears some resemblance to *S. Vogelii*, though having smaller leaflets than the latter and being of a very noticeable shade of dark green.

S. Braunii has very often though incorrectly, been sent out as *S. Wildenowii*, and is doubtless better known under the latter name than under its correct designation.

It is a very useful species of moderate growth, producing dark green fronds of arching habit and from six to fifteen inches long.

This is a very graceful species and the fronds being of firm texture stand exposure well. *S. umbrosa* is another good kind, being of compact habit and making

a very pretty little plant in a 3 or 4-inch pot, and as an exhibition sort has few superiors. *S. umbrosa* produces triangular fronds of bright green color and from six to eighteen inches high.

Among the creeping varieties there are two or three of special utility, and prominent among these are *S. Kraussiana* and its variety *aurea*, both of which are so well known and appreciated that further description seems unnecessary.

S. delicatissima is somewhat similar to the above, but of finer growth and more compact habit.

This grows rapidly and is an excellent sort for carpeting under other plants in decorative work, its good qualities for this purpose being frequently recognized.

S. uncinata (also known as *S. Cesia*) is a very pretty species from China, and of very rapid growth. The peculiar shading of the leaves from dark green to metallic blue gives it a most interesting appearance.

S. Martensii, to which reference has already been made, and its variegated form, are both valuable, but do not need extended description. W. H. TAPLIN.

Deutzias.

These are among the most popular and desirable of hardy ornamental garden shrubs; they are indispensable in the open garden and of much importance to the florist for forcing for winter and spring cut flowers.

The genus is purely Asiatic; some of the species are indigenous to the Himalaya Mountains, and others to China and Japan. Three species only figure conspicuously in our gardens, and these are *crenata*, *gracilis* and *parviflora*, the first two are natives of Japan, and the last named of Northern China. *Deutzia gracilis* is the commonest, and most useful of all, and it is the one generally grown by florists for forcing for cut flowers in winter. Nothing can be simpler than its propagation and cultivation.

Deutzia crenata comes next in importance. While *D. gracilis* is a low-growing, dense, arching bush, *crenata* is an erect, moderately tall mock-orange-like shrub. The flowers of the typical plant are white and slightly tinged with purple on the outside, and the blossoms of the double-flowered form are also white but a good deal tinged with purple on the outside. *Pride of Rochester*, a variety raised by Ellwanger & Barry, is double-flowered, large, early and almost pure white, and *candidissima flore pleno* is a pure white double-flowering form now also common in cultivation. Of all of these, *Pride of Rochester* is, I think the best for forcing.

Deutzia Watereri and *D. Wellsii* are hybrids between *D. gracilis* and *D. crenata*. They are said to bear large pure white flowers in great profusion, and to be valuable desiderata to our garden shrubs. We have fine plants of both but they have not yet bloomed.

Deutzia parviflora, although catalogued by some of our nurserymen for a dozen years, is little known and seldom met with, but it is a handsome species and well worth growing. It is an erect, growing plant, like *crenata*, but not nearly so tall; its flowers are white and borne in corymbs all along the upright stems after the fashion of some spiræas, and it blossoms at the same time as *D. gracilis*.

The following notes from my diary explain the time of flowering:

1890, May 28, *Deutzia gracilis*, at best, or a little past best.

—May 28, *Deutzia parviflora*, in good flower, best.

—May 28, *Deutzia crenata*, none nearly out yet.

—June 13, *Deutzia Pride of Rochester*, at best.

—June 13, *Deutzia crenata*, in good flower.

—June 13, *Deutzia crenata fl. pl. opening*.

It will thus be seen that both *gracilis* and *parviflora* are worth growing for cut flowers for Decoration Day.

There is a good deal of uncertainty about *D. scabra*, *scabra vera*; what is usually sold for *scabra* is simply *crenata*, on the other hand what we have had for the true *scabra* is not the same as *crenata* and it isn't quite hardy.

The *Deutzia Sieboldii* referred to by Mr. Jackson Dawson at the florists' convention at Boston (see *Proceedings*, page 98) as one of the twelve best hardy shrubs for florists' use, is like *D. crenata* but with longer racemes and pure white flowers and was raised from seed sent from Japan to the Arboretum.

My experience has been that the double-flowering varieties of *crenata* are better than the single ones for forcing because they do not drop their blossoms so soon.

Long Island, N. Y.

W. F.



Carnation Notes.

In this part of the country we consider the careful tying up of carnations as absolutely essential to the growth of first class flowers. I use cane stakes and tie up as soon as possible after benching. In four and one half or five inches of soil there is no trouble from the stakes falling over. I do not tie up the flower stems, only the foliage. Most of my varieties have stems that carry the flowers well above the foliage and there is no trouble in picking; a weak, drooping habit is a great objection, still we have some fine varieties with weak stems.

The buds on the side benches sometimes reach the glass; mosquito netting has been successfully used to prevent actual contact. It is stretched between the plants and the glass and tacked to the muntins. The shading does not affect the flowering qualities in the least, in fact it seems to me that carnations do not require so much light as some other plants.

I find it very easy to get seedling carnations which possess one good quality in a marked degree, but when it comes to combining two or more qualities in the same plant, it is not so easy. I have had many purple flowers, some of them very rich in color, but the color is not desirable and I have not kept them. As to a blue carnation, when it comes it will be hard in hand with the blue rose and we will welcome them together.

Mr. Thorpe thinks that within ten years we will have carnations four inches in diameter and bringing a dollar a piece at wholesale. We have three-inch flowers now, so there is only one inch to gain; when I get a four-inch one I will willingly take a dollar a piece for all I can raise.

I make a practice of taking down all my carnations at least once during the season, carefully thinning out the old stems and undergrowth and then tying them up again. It is a tiresome process but it pays where first class flowers are wanted; when quantity rather than quality is called for it would not pay.

Will some one please give the points of a first class carnation from the standpoint of commercial growers. The standard seems to vary somewhat. How large must a flower be to be first class or second class? L. WIGHT.

Framingham, Mass.

Successful Wire Supports.

For years I have used wire to support carnations. In a house 30x30, the straight, upright rows will satisfy the most exacting. The first wire is 6 inches from the ground, with cross supports about 12 feet apart. Separate the varieties according to their habits. I beg to disagree with Mr. Chitty, that wire supports interfere with cutting long-stemmed carnations. Stems 12 inches and over can easily cut. J. L. LOOSE.

Alexandria Va.

"Diseased Callas."

When callas in a warm house are "starting up" or growing luxuriantly, watering with icy water will produce the effect C. B. W. describes, page 234. A.M.

FLORIST for November 27, viz, rotting off next the soil, accompanied with diseased roots.

The best treatment for callas so affected is to keep them somewhat dryer, for some time, watering them sparingly as if starting up the dormant rhizomes. Because this is the condition they are essentially reduced to. They must form new roots and start the season anew. During this period what water is required should be of a temperature pleasantly warm to the hand.

After the callas have started and recovered completely the water used may be cooler, but at no time should its temperature be more than 15° lower than that of the house. If it is not too inconvenient to have it so the water for callas may be 10° warmer than the temperature of the house with great advantage.

New Albany, Ind. ERNEST WALKER.

Ferns for Cutting.

Since such a variety of other foliage has been used for intermixing with cut flowers, ferns have not been so much in demand. The drawback to the use of fern fronds is that they do not, as a rule, last well. Yet, provided the plants are grown under favorable conditions, this objection may be overcome to a considerable extent. In the first place the plants should be grown in a light open position, and sufficiently far apart for air to pass freely between them, and as little artificial heat given them as is necessary for the full development of the fronds. By this treatment the fronds are not only brighter and of a less sombre appearance, but when cut they last much longer. Another point is the selection of sorts. This, of course, depends upon what particular purpose they are required for, and also, to some extent, personal taste. The beautiful though somewhat fragile maidenhair (*Adiantum cuneatum*) will always hold first place, and as now grown by those who supply the market it is of considerably more value than when it used to be grown under heavy shading, a mode of treatment not yet extinct among private growers. A. elegans is another maidenhair which now finds much favor among fern growers. This variety has larger and more spreading fronds than the old favorite. It is also harder and will grow freely during the winter months, where A. cuneatum would remain almost dormant. A. setum may be recommended as one of the best large-fronded adiantums. For some purposes, especially button hole bouquets and sprays, the slender growing A. undulatum is very useful; and the most beautiful of all ferns (A. Farleyense) may be added to the useful adiantums for cutting from.

Among davallias there are several very useful sorts, though perhaps they do not produce their fronds so abundantly as some, yet they have the advantage of being of greater substance, and consequently last longer. When grown in either wire or wooden baskets, suspended from the roof of the fernery, they are pretty and produce a considerable quantity of useful material for cutting from. The most useful sorts are D. elegans, of remarkably free growth; D. Mariess, which succeeds well in a cool house; D. decorata and D. Mooreana, the last named being especially useful where large fronds are wanted. When constantly divided and grown in light sandy compost it produces very pretty medium sized fronds.

Several of the varieties of nephrolepis may be included among those useful for the above purpose, especially the long,

slender-fronded N. pectinata and N. Philippiensis, both of which are very pretty for small vases, etc., while N. exaltata and N. tuberosa are very effective for larger work.

The varieties of P. serrulata are the most valuable of this genus; the lighter crested varieties, which droop over just enough to be graceful, should be grown. The normal form is not nearly so much grown as it deserves to be for this purpose. Where large spreading fronds are required, the Chiswick variety of P. s. major is most effective. The varieties of P. critica are also very useful and last well, but are rather stiffer than the above named. P. tremula when confined to small pots produces fronds which are very serviceable for large vases, &c.

Onychium japonicum should be extensively grown, as the fronds, although finely cut, are of good texture and last well. This fern is also very free growing and is nearly hardy, but to keep up a supply of fronds during the winter it should be grown in an intermediate temperature. To the above many others might be added, which for some purposes would be useful, but for all ordinary uses those mentioned are the best.

To ensure fern fronds lasting well they should be put into water as soon as possible after they are cut, or if they can not be put in at once the ends should be cut off again, for if they get a little dry at the base they can not take up the water freely, and while they last for a considerable time in a cool atmosphere they will shrivel up quickly if exposed to a draught or a dry, warm atmosphere.—F. H., in London Garden.

The Cineraria.

It suits my purpose to grow nearly the whole of my cinerarias from offsets, which are taken from the parent plants any time after midsummer. It is possible to obtain them earlier, but it is not desirable to do so during the warmest part of the year, good flowering specimens being easily grown from offsets put in during August. The earliest offsets are at this late period already in the 8½-inch pots, in which they will flower. The later ones will be finally rooted early in the new year. It is neither essential nor desirable that the compost used should be very rich; and I think that we err in making it so, because rich soil disposes to large, flabby, brittle leaves that snap at a touch and are spoiled. A good potting soil is made with turfy loam five parts, one part coarse white sand, one part leaf mold, and one of rotten manure. This compound is sufficiently rich to produce good stocky growth. The leaves being at the best rather brittle, must be carefully handled when potting the plants, or tying them out. It is an essential part of good culture that the large leaves should be tied out so as to allow air and light to reach the rising flower stems, and this work is best accomplished by tying a piece of tarred or other string around the pots under the rim. The best position for cinerarias until they begin to flower is in a span-roofed pit, where they should be placed quite close to the glass, or at least as near as is safe or convenient. It is of much importance that the plants should be kept free from aphids, which, although they do not injure them much in winter, will show a marvelous increase as soon as warmth increases. A very troublesome parasite on cinerarias at this season is white mildew, which, when unobserved, soon produces a quantity of fine white thready lines upon the under sides of the leaves. To get rid of it, the best thing is

to dust the under sides of the leaves with flowers-of-sulphur. Fumigation with tobacco will destroy aphids, but caution is necessary in its use, as the leaves are very tender, and easily and permanently injured by it, for it should not be forgotten that the foliage is in its own way as beautiful as the flowers, and the latter are never seen to advantage unless the foliage is good.

The nearer cinerarias are to the glass the more likely they are to be injured from frosts, and it may be well to remark that, when sharp frosts set in, the balance must be well and carefully kept between heating the house too much and allowing frosts to injure the leaves near the glass. The temperature may fall 2° or 3° below 40°, but should not rise much above that point. A high night temperature with an over dry atmosphere does not suit the plants, and air should be admitted on all favorable occasions; but not when drying cold winds are blowing, as these cause the leaves to droop, and subsequently to decay. I might say a word about some of the distinct and beautiful varieties exhibited during the past season, but those that received certificates have been described in these pages. None of these varieties have as yet been sent out in the way usual in previous years, and being certificated and described, it may not be worth while to say more here, than that the steady improvements shown in form of flower, and the habits of the plants, have been continued up to the present time. It may be well to remark that good culture has much to do with dwarfness of habit, and general good quality of the plants and flowers.—*J. Douglas, in Gardeners' Chronicle.*

Silver Leaved Geraniums.

At Lincoln Park, Chicago, the bulk of the great number of geraniums grown there, are propagated from cuttings taken in the fall from the plants which have been bedded during the summer, but in the case of silver leaved and bronze geraniums that method has been unsatisfactory. The wood does not become sufficiently ripened in the open to strike well in the bench.

Plants of these sections of the geranium family are lifted in the fall, potted, and kept in the house for four or five weeks, until the wood is ripened. Cuttings are then taken and strike root satisfactorily. If the plants do not supply sufficient cuttings to make the required number of plants, a batch of cuttings may be taken from the young plants. These cuttings will however be very small, so small that they can not be inserted in the sand bed and kept in an upright position, the first watering being almost certain to tip them over or wash them out, and of course the cutting must not be so deeply inserted as to have the sand above the crown or rot will ensue. This difficulty is overcome by head gardener Stromback by a device which we have before illustrated but which will bear reproduction, as it will frequently be of great assistance to every grower of these plants, when he may be short of larger cuttings.

A toothpick is wired to a leaf stem of the cutting and the pick inserted in the sand deep enough to rest the base of the cutting on the surface of the sand, as shown in the sketch. They will root freely in this position. When rooted the cuttings are potted without removing the toothpick, which is taken out later when the plant has become well established in the pot. This wiring must not be tightly done as rot might thus be in-

duced. This little wrinkle renderers available a large number of cuttings which otherwise could not be utilized, and there is rarely a surplus of cuttings of these geraniums.

Relations of Employer and Employee.

I wish to ask a few questions through the columns of the AMERICAN FLORIST, viz.: What are the benefits from boarding with the employer? I shall present my side, "the employee's," of the question as best I can, and do so in the hope that it may have a tendency towards bettering both the employer and employee's position and relations, which I am sorry to say for the latter are in a great many places, especially in the west, if such I may call this state on the Missouri river, anything but mutual.



CUTTING SUPPORTED BY TOOTHPICK.

All tradesmen, mechanics, factory hands and common laborers have a set time to perform their labor in, and as a rule are allowed extra for overtime work performed. With a great many in our trade it is quite different. Ten hours as a rule is considered a day's work, but not with us. The most of our overtime is done gratis to the employer, and right here I wish to ask why at so many florist establishments such is the case? With those that board with their employer in spring time you are often compelled to work 13 hours with the privilege of leaving if you are not satisfied, which I think is not so easily done when you are in a place or city that does not support more than two or three florists, and none within a hundred miles that does. Does it not seem unreasonable on the part of the employer?

The employee that boards elsewhere knows nothing of this; he is not handy and within easy call, but you that set at your employer's table are oftentimes asked without a blush on the part of the employer to perform work after supper and on Sundays that will sum up a week's wages in a month, but you don't get it. You are not allowed a rest near the place. Your only salvation is to roam off somewhere if you wish to feel a little independent and at ease. The man that boards elsewhere performs his day's work and does not return until the next day, starting time. Perhaps you have been at work a half an hour on something that needed immediate attention, at least your employer seemed to think so, and yet the other employee has as much at the end of the month as you have after paying for his board and lodging, and then he has the privilege of boarding where it pleases him, and being independent. He can leave whenever he

does not get his money's worth, but with you it is different, you can not leave unless you leave your position, and to complain as regards meals and lodging would place you in a very embarrassing position with your employer. Does it not seem as if your employer induced you to board with him just because he is thereby enabled to get more work out of you? Yes, many look upon you as that much machinery to be worked to its fullest extent. You may perform your work conscientiously to the best interest of your employer, of this you never are reminded, but when the least thing goes wrong you are growled at for two and three hours at a time. It is a poor recommendation to leave a place on short notice so you remain until you have a chance to better yourself.

But the question that I wish to ask the most directly is what excuses have some or can some florists present for the shameful board they offer the employee, but for which they expect all that I have mentioned as regards overtime gratis and your entire interest as regards the welfare of their business? There are more than a few that will agree with me when I say that the board that some offer you is not worth \$2 per week, and I think that if some of them would venture into the cheap boarding house business they would prove more successful than they are at floristing. I wonder how long some would be contented to sleep in the places and on the beds, if such you may call them, that they offer you for your lodging. It is either a cot in the potting shed or a place in the garret in which they or he places an old bed, a straw bed and pillow, a few torn and dirty quilts, and one sheet which you are compelled to change yourself if you wish to have it clean. This and an old chair constitutes your furniture. As you are supposed to make your toilet under the hydrant you will have to purchase your own wash basin, bowl or pitcher. One towel a week for all the other hands to dry on besides yours if it is hung up in the potting shed. You have to make your own bed and keep it clean if you are so inclined. And yet these same ones are talking of education and good results from employees, say grace at the table and compel you to perform unnecessary work on Sunday.

I wish to say in justice to many florists that the board they give and the lodgings they offer are second to no first class boarding house, and it is such men that deserve the co-operation of the employee and the utmost conscientiousness in performing his duty to the best of his knowledge and towards the success of his employer. No employee will object to perform work for such men, when it is needed and necessary. Men that merit your work and do not ask anything that is way beyond reason. But when a man commences to grind he can never expect good results.

A WORKING HAND.

At the Flower Show.

The New York Evening World of Nov. 28 has the following regarding the flower show:

An amusing story is told of a young lover who thought he would buy a lady slipper (cypripedium) that he fancied would be an acceptable gift to the pretty little lady by his side.

"How much is it?" he asked.

"Seven hundred and eighty dollars," was the reply.

He didn't buy it.

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Cash with Order.**No Special Position Guaranteed.**Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
20 times, 20 per cent; 52 times, 30 per cent.

No reduction made for large space.

The Advertising Department of the AMERICAN
Florist is for Florists, Seedsmen, and dealers in
plants pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

OUR TRADE DIRECTORY.—We have of late received inquiries about the "directory" for 1891, and in some instances orders for the same. To avoid useless correspondence we would say that it is not our intention to publish an edition of the directory for 1891. We may publish a new list in 1892 or 1893, but certainly not before 1892. While there have of course been some changes from the list as published last spring they are comparatively few in number and are mainly changes in street addresses in the larger cities. We shall soon publish a list of changes and additions in these columns.

WE HAVE received from John Breitmeyer & Sons, Detroit, Mich., a small lithographed calendar for 1891, which is ornamented by a spray of flowers in colors and the firms card on its face, while on the reverse is printed a list of the roses of which they offer cut blooms for sale. The color of each rose is given opposite its name, and the list is classified into "Tea Roses" and "Hybrids." On the margin opposite the list of teas appear the words "September to July" and opposite the hybrids "January to June." It is a neat advertisement and may be a useful suggestion to other retail florists.

MR. PAUL DANA, son of Charles A. Dana of the New York *Star*, has been appointed one of the Park Commissioners of the city of New York. Mr. Paul Dana is a gentleman of vigorous, executive ability, wide travel and fine education. And as he has been brought up in one of the loveliest and most important gardened homes of America and is thoroughly familiar with progressive landscape architecture, sylviculture and floriculture, we question if a happier choice could have been made for the position. We congratulate New York.

THE RECENT exhibition at Madison Square Garden, New York, given by Messrs. Pitcher & Manda, received remarkably liberal notices in the New York daily press. Many of the papers devoted columns of space daily to the show while open, and columns of complimentary notices after its close. And to crown all the show was a decided success financially. It is possible that this successful effort of a single firm in the exhibition will awaken the apparently dormant New York Horticultural Society.

IT SEEMS to be popular now to name new chrysanthemums after daily newspapers. The New York *Tribune* devotes considerable space to a description of a chrysanthemum named "The Tribune" in its honor. Another new chrysanthemum has been named "The Press" as a compliment to the New York *Press*, and

the paper at once responds with an elaborate description of the flower ornamented by a cut of same. There are several ways of touching the hearts of the newspaper men.

FLORA of North America, including ferns. In response to the request made by W. W. we name: Gray's "Manual of Botany" of the eastern and northern states, Chapman's "Flora of the southern United States," "Coulter's Manual of Rocky Mountain Botany," Botany of California (Geographical survey of California. Botany Vol. I and II) by Sereno Watson. Or get Gray's Synoptical Flora. Ivison, Blakeman, Taylor & Co., publishers, New York and Chicago.

MILDEW.—J. B. will find all the latest information regarding mildew in previous issues of the FLORIST. Also descriptions of all known remedies. Sulphur is the most effective preventive, and at this season of the year a wash composed of sulphur and lime wash or sulphur and linseed oil should be applied to the heating pipes.

THE CHRYSANTH.—In another column will be found a communication urging the adoption of "Chrysanth" as the abbreviation of chrysanthemum, rather than "Mum" which has been so frequently used of late that it bids fair to become general among the growers.

A NEW combination in exhibitions is an "Art loan and chrysanthemum fair." Such an exhibition was held at Santa Rosa, Cal., November 18 to 22. A prize was awarded for the finest display of chrysanthemums.

FLORIST H. O. Hinckley, Rockford, Ill., sends us some specimen blooms of the pink carnation Bertha Soper. The blooms are very good. We have before described this variety.

Society of American Florists.

Mr. Robt. J. Halliday, of Baltimore, having sent in his resignation as a member of the Executive Committee, Mr. W. R. Smith, of Washington, has been appointed by President Jordan to serve for Mr. Halliday's unexpired term. President-elect Norton has appointed Mr. Jas. Dean, of Bay Ridge, N. Y., Mr. H. W. Buckbee, Rockford, Ill., and Mr. P. Welch, Boston, as members of the Executive Committee for three years, commencing January 1, 1891, in the place of Messrs. Keller, Reynolds and Calder, whose terms of office have expired.

News Notes.

ROCKFORD, ILL.—The wife of J. J. Soper, the florist, died November 28.

STILLWATER, MINN.—Alfred C. Bentley has added a new house 12x60, heated by steam.

LAKE GENEVA, WIS.—Button Bros. are adding 1,500 feet of glass to their greenhouse plant.

DURING the first and second weeks of November over sixty chrysanthemum shows were held in England.

KALAMAZOO, MICH.—The twentieth annual meeting of the Michigan Horticultural Society was held here Dec. 2 to 4.

PLATTSBURGH, N.Y.—W. J. Hesser has made still further additions to his glass and will add still more the coming spring.

LOUISVILLE, Ky.—F. Walker & Co., are putting the finishing touches on a new house 18½ by 150 feet at their place in New Albany, Ind.

MORRISON, ILL.—Robert Davis & Sons, have been adding to and improving their old greenhouse and have also built a new house making two, each 20x145. Heated by hot water.

MIDDLEBOROUGH, Mass.—Florist C. D. Kingman made an excellent display of chrysanthemums at his greenhouses during November. It was warmly praised by a local paper.

WILMINGTON, DEL.—A. S. Rollo & Son is a new firm of florists not listed in our trade directory. They have greenhouses at the corner of 8th and Clayton streets and a store at 622 King street.

DALLAS, TEX.—M. Phillips has just completed a new greenhouse 80x18 feet, heated with hot water. Business is improving, with plenty of outdoor grown roses of good quality. No frost yet but plenty of rain.

LOS ANGELES, CAL.—The new Floral Society now has a membership of nearly 150. Mrs. Davis has bought the Garey Flower Store. Business is good and has been so all the season. We shall hold our usual rose show in April.

READING, PA.—George W. Bears is a florist who has started since the publication of the trade directory and does not appear in the list. He has a store at 820 North 6th street and greenhouses corner of Spring and Church streets.

PEEKSKILL, N. Y.—Florist E. C. Taylor gave an exhibition of chrysanthemums in a vacant store on Main street November 18 to 20. Some very good plants and flowers were shown. Mr. Taylor gave half the door receipts to a local charity.

ROCHESTER, N. Y.—The Brown Brothers Company was incorporated December 1 with a capital stock of \$100,000, to conduct a general nursery business. The incorporators are Charles J. Brown, Robert C. Brown, John S. Brown and Charles Fisher, Jr., of this city, and Edward C. Morris, of Chicago.

CLEVELAND.—James Eadie's greenhouses on St. Clair street were destroyed by fire last Friday night, causing a loss of \$25,000 with not a cent of insurance. The loss was absolute, for the plants the fire spared were drenched with water and frozen. There were thirteen houses in all. The fire started in the boiler room.

SPRINGFIELD, MASS.—At the recent great football match between Yale and Harvard the admirers of the Yale men wore violets and of the Harvard men, crimson chrysanthemums. The adherents of each collected together and as a local paper expressed it: "On the west was a violet bed and on the east a chrysanthemum show."

J. M. McCULLOUGH'S SONS,

Wholesale Commission Dealers in

CUT FLOWERS,

134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES:

ROSES, CARNATIONS AND ORCHIDS.**WELCH BROS.,**

Wholesale Florists.

105 Tremont Street, BOSTON, MASS.
We are a specialty of shipping choice roses and other flowers, carefully packed, to all points in Western and Middle States.
Return Telegram is sent immediately when it is impossible to fill your order.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,

And the Choicest ROSES for the
fall and winter season.

W. S. ALLEN, WHOLESALE DEALER IN CUT FLOWERS,

36 EAST 23rd STREET, NEW YORK.

ESTABLISHED 1877.

Price List sent upon application.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS,

No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

HAMMOND & HUNTER, WHOLESALE DEALERS IN CUT FLOWERS,

51 West 30th St., NEW YORK.

W. A. JURGENS, WHOLESALE FLORIST

27 Union Square, NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST

56 WEST 30TH STREET,
NEW YORK.

EDWARD C. HORAN, 34 W. 29th St., NEW YORK.

Having removed to more spacious quarters
(next door) with increased resources and facilities
I am now prepared to furnish at short notice and
in any quantity, selected Roses of every variety,
also all other flowers in market.

Roses to be shipped are especially selected,
and packed under personal supervision.

SPECIALTIES:

American Beauty, La France, The Bride,
Mermets, Mme. Hoste, Duchess of Albany.

—WRITE FOR PRICE LIST.—

Return testimonials sent when ordered or part of
them cannot be filed.

Mention American Florist.

A. S. Burns, J. I. Raynor.

BURNS & RAYNOR, WHOLESALE FLORISTS, 11 West 28th St., NEW YORK.

HOLLY.

Send in your Orders now.
THE WISCONSIN FLOWER EXCHANGE,
133 Mason Street, MILWAUKEE, WIS.

Wholesale Markets.

Cut Flowers.

Roses, Tea.....	2.00 @ 3.00
" Niphetos.....	2.00 @ 3.00
" Goudiers.....	2.00 @ 3.00
" Perles, Samets.....	2.00 @ 3.00
" Mermets, Brides.....	2.00 @ 3.00
" La France.....	2.00 @ 3.00
" Wootons.....	2.00 @ 3.00
" Ann Beauty.....	2.00 @ 3.00
" Waterville.....	2.00 @ 3.00
Carnations, long.....	1.00 @ 2.00
Carnations, short.....	.75 @ 1.00
Valley.....	6.00
Violets.....	4.00
Calias.....	4.00
Chrysanthemums.....	1.00
Bouvardia, single.....	4.00
Bouvardia, double.....	4.00
Roman hyacinths.....	4.00
Narcissus, white.....	4.00
Smilax.....	12.00
Adiantums.....	1.00 @ 1.50

Roses, Beauties.....	2.00 @ 3.00
" Albany.....	2.00 @ 3.00
" Mermets, Brides, La France.....	2.00 @ 3.00
" Cousins, Waterville.....	2.00 @ 3.00
" Hostes, Bennetts.....	2.00 @ 3.00
" Perles, Niphetos, Goudier.....	2.00 @ 3.00
Valley.....	1.00 @ 2.00
Carnations, long.....	1.00 @ 2.00
Carnations, short.....	.75 @ 1.00
Smilax.....	12.00 @ 20.00
Violets.....	4.00 @ 5.00
Bouvardia.....	4.00 @ 5.00
Romans.....	4.00 @ 5.00

Roses, Bon Silene.....	2.00 @ 3.00
" Goudiers.....	2.00 @ 3.00
" Perles, Souys, Niphetos.....	2.00 @ 3.00
" Mermets, Brides.....	2.00 @ 3.00
" La France.....	2.00 @ 3.00
" Albany.....	2.00 @ 3.00
" Waterville, Cousins, Bennetts.....	2.00 @ 3.00
" Hostes.....	2.00 @ 3.00
" Beauties.....	2.00 @ 3.00
Carnations, long.....	1.00 @ 2.00
Longiflorum lilies.....	1.50 @ 2.00
Valley.....	1.00 @ 1.50
Violets.....	1.00 @ 1.50
Adiantums.....	1.00 @ 1.50
Asparagus plumosus.....	2.00 @ 4.00
Roman hyacinths.....	.50 @ 1.00
Bouvardia.....	.50 @ 1.00
Narcissus.....	.50 @ 1.00

Roses, Perles, Niphetos.....	2.00 @ 3.00
" Goudiers.....	2.00 @ 3.00
" Bon Silenes.....	2.00 @ 3.00
" Mermets, La France, Brides.....	2.00 @ 3.00
" Bennetts.....	2.00 @ 3.00
" Ann, Beauties.....	2.00 @ 3.00
Carnations, short.....	1.25 @ 1.50
Carnations, long.....	2.00 @ 3.00
Carnations, long, fancy.....	3.00 @ 4.00
Smilax.....	15.00 @ 20.00
Adiantums.....	1.25 @ 1.50
Violets.....	1.25 @ 1.50
Bouvardia.....	1.00 @ 1.50
Roman hyacinths.....	1.00 @ 1.50
Valley.....	1.00 @ 1.50
Calias.....	1.00 @ 1.50
Poinsettias.....	1.00 @ 1.50
Stevia.....	1.00 @ 1.50
Narcissus.....	1.00 @ 1.50

WM. J. STEWART, Cut Flowers & Florists' Supplies —WHOLESALE—

A large stock of ROSES, LILY OF THE VALLEY,
VIOLETS, CARNATIONS, ASPARAGUS,
HYACINTHS and other standard
flowers for the

HOLIDAYS.

HOLLY AND MISTLETOE, of best quality, by
the Case or in large quantities at low prices.

CALDWELL'S LONG NEEDLE PINES.

PALM LEAVES.

MAGNOLIA BRANCHES, ETC.

Constantly on hand.

WM. J. STEWART,
67 Bromfield St., BOSTON, MASS.
Mention American Florist.

GEO. MULLEN, WHOLESALE FLORIST. Florists' Supplies Always in Stock. 17 CHAPMAN PLACE, (Off School St., near Parker House), BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express
promptly filled.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO.

(Successor to Vaughan's Cut Flower Dep't.)

All Flowers in Season.

Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS, 27 Washington Street, CHICAGO.

All Cut Flowers in season. Orders promptly shipped.

Store open until 9 P. M. Sundays until 2 P. M.

ALL SUPPLIES. —WIRE WORK A SPECIALTY.

C. H. FISK, WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES, 116 Dearborn Street, CHICAGO.

OPEN NIGHTS AND SUNDAYS.

WIRE DESIGNS IN STOCK

GRESENZ & HARMS, (Successors to FRESE & GRESENZ.) Wholesale Dealers in CUT FLOWERS, And Florists' Supplies.

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Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese, WHOLESALE FLORIST 66 Wabash Ave., CHICAGO.

Consignments Solicited.
STORE OPEN NIGHTS AND SUNDAYS.

LaRoche & Stahl, Florists & Commission Merchants

—OF—

CUT FLOWERS,
1237 Chestnut Street, PHILADELPHIA.
Consignments Solicited. Special attention paid to
shipping.

Mention American Florist.

G. E. & S. S. PENNOCK, WHOLESALE FLORISTS, 38 S. 16th Street, Philadelphia, Pa.

JOHN M. HUDSON, —WHOLESALE— Commission Dealer in Cut Flowers, 1225 Market St., ST. LOUIS, MO.

Quick sales and prompt returns guaranteed.
Consignments solicited.

ELLISON & KUEHN, —WHOLESALE— FLORISTS, 1122 PINE STREET, ST. LOUIS, MO.

CUT FLOWERS.

The choicest Cut Flowers, of our own growing,
at lowest market rates, shipped C. O. D. Use A.
F. Code when ordering by telegraph. Telephone
connections. For prices, etc., address

J. L. DILLON, BLOOMSBURG, PA.

The Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FORTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

MR. A. S. BENEDICT, the enterprising young seedsmen of Crete, Neb., died of pneumonia November 13.

JOHN A. SALZER, President and Benj. F. Salzer, Superintendent, of the Salzer Seed Co., La Crosse, Wis. are in California where they will spend the greater portion of the winter in search of health.

The Stephanotis.

The way in which stephanotis blooms depends on the treatment it receives during the growing season. Where exposed to as much light as it is possible to give the plants, with little shading accompanied by a dryish condition of the atmosphere, the bloom is often formed in the autumn. It may be seen in the shape of small spurs at the base of the leaf-stalks for a considerable length from the extremities of the shoots downwards. Plants in this condition can be had in flower early. But the soil, especially where they are grown in pots, should not through the season of rest be kept too dry, otherwise the already formed bloom is liable to go off. In the case of plants that have been grown in a more humid atmosphere, there are seldom any flowers formed on the growth that has been in the autumn, their presence being wholly confined to the young growth that is made after the plants are started in spring. In this case the roots may be kept drier, no more water being given than is necessary to maintain the leaves plump and free from any inclination to flag. The drier they are kept, provided it is not carried so far as to injure the foliage, the sooner flowers may be looked for after the plants are again started.

T. B., in London Garden.

SITUATIONS WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advts. not admitted under this head.

SITUATION WANTED—A florist and gardener in private place, good references. Address Lock Box 465, Sharon, Pa.

SITUATION WANTED—By a good gardener and florist single with the best references, either private or commercial. Address H. care American Florist.

SITUATION WANTED—As head gardener by a married man in some public park, cemetery or private place in the north-west of England, thoroughly competent to take full charge. Address D. care American Florist.

SITUATION WANTED—By a first class florist. Thoroughly posted in all branches of the foreman of a commercial establishment—a place where roses and cut flowers are made a specialty preferred. Mention salary. PRINCERS, care Am. Florist.

WANTED—To either buy or rent several green-houses with farm attached, near growing town. Address W. Box 30, Poultet Conn.

FOR SALE—A country hotel with greenhouse, in a prosperous Connecticut town. For particulars address HOTEL, care Am. Florist.

FOR SALE—Florist business, thoroughly equipped and stocked. Doing a fine business at home and abroad. In a growing Ohio city. Must sell for good reasons. A good investment. Four houses. The real estate for sale or lease to purchaser. Price \$30,000. Address BARGAIN, care Am. Florist.

FOR SALE—A florist establishment, one greenhouse 75x15, and two 75x10 feet each, heated by hot water (Wentworth's); 2½ acres of good land, some wood and pasture, plenty fruit; dwelling house, barn and other out-buildings; good well and cistern. All buildings new and in good order. One hour from New York City, and one mile from Danbury. Price, \$1,800, or will sell the greenhouse property separate for \$2,000. Address P. O. Box 115, Kempsay, N. J.



JOHNSON & STOKES, SEEDSMEN,

217 and 219 Market Street, PHILADELPHIA, PA.

HENRY METTE,
Seed Grower and Merchant,

QUEDLINBURG, GERMANY,

(Established 1787.)

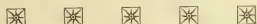
Wholesale Catalogue free on application. Special low prices given for large quantities. Mention American Florist.

G. J. MOFFATT,
Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.
Samples and Prices on Application.
Mention American Florist.

DOUBLE WHITE PRIMULAS.

Fine plants, from 3-inch pots, in bud and bloom, at \$9 per hundred Address

A. R. REINEMAN & BRO.,
39 Fifth Avenue, PITTSBURGH, PA.
Mention American Florist.



OUR NEW

DIRECTORY

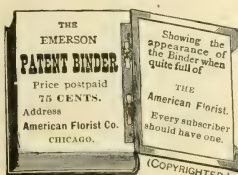
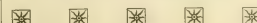
giving a complete and accurate list of the Florists, Nurserymen and Seedsmen of the United States and Canada is

NOW READY.

Price, \$2.00.

AMERICAN FLORIST CO.,

54 La Salle Street, CHICAGO.



Vegetable Seeds for Market Gardeners.

Flower Seeds and Bulbs for Florists.

Our reputation among the critical Market Gardeners of this country, for having varieties and strains specially adapted to their wants, is second to none.

Our new Florists' and Market Gardeners' WHOLESALE PRICE LIST is the best and most complete list of its kind ever sent out. Write for it on your price letter-head or endorse business card to show you are entitled to it. Our Horticultural and Poultry Supply Circulars are complete and can be had for the asking.

ROSES

FOR IMMEDIATE PLANTING

Duchess of Albany.....	2 in. \$12.00
Mme. Hoste.....	2 in. 7.00
La France.....	5 in. 5.00
Goutiers.....	4 in. 4.00
Perles.....	4 in. 4.00
Niphetos.....	4 in. 4.00
Mermets.....	4 in. 4.00
Brides.....	4 in. 4.00
Bon Silence.....	4 in. 4.00
Gen'l Jack, 2 in. \$40 per 1000; 3 in. \$8.00	

H. Perpetual, 40 var. 2 in. \$50.00 per 1000.

SEND FOR LIST

GEO. W. MILLER,
1748 N. Halsted St. CHICAGO.
Mention American Florist.

ROSES.

We offer in fine condition, from 2-inch pots.

WASHINGTON ROBUSTA, a first class decorative Palm, fastest grower and hardiest of all, will stand 10° cold without injury, \$8 a 100; \$70 a 1000.
LATANIA BORBONICA, 1 yr. fine \$6.00
FOUR NEW SEEDLING ABUTILONS, Blue Belle, Bronze Belle, Indian Chief and White Neck—decided novelties, 3-inch pot plants, 50 cents each, the four for \$2.50.

NEW GRAPE LUETII, superior in size, vigor and flavor to Delaware, of which it is a sport. A grand novelty, 6cc. each \$5 per doz.; \$50 per 100. Several thousand **CLIMBING ROSES**, Baltimore Belle, Triumph, Prairie Queen, Tennessee Belle, with canes 5 to 8 feet long (if desired untrimmed) \$8 per 100, \$50 per 1000.

LIGUSTRUM, 2 sorts 2 in. high, \$5 per 100; \$40 per 1000. Splendid hedge plants.

SCOTCH PINKS, fine clumps, Snow or colored seedlings, \$6 per 100.

A Special Price List of Roses, (over 100,000 in stock) and an endless number of young plants in unequalled assortments; will be ready in January.

Address **NANZ & NEUNER,**

LOUISVILLE, KY.
Mention American Florist.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 3 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS**, **CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.
Mention American Florist.

Now Ready, for Cash.

Begonia Bruntii alba, best white, Per 100	
winter bloomers, 2½-inch, - \$ 6.00	
same, 3-inch, - 10.00	
Begonia Metallica, 2½-inch, - 6.00	
" 3½-inch, - 12.00	
Semperflorens roses, 2½-inch, 4 in. 12.00	
Abutilon Eclipse, 2½-inch, - 5.00	
Manettia bicolor, 2½-inch, - 7.00	
" 3-inch, - 11.00	
Agapanthus, 3½ and 4-inch, - 8.00	

Large thrifty stock in fine shape, ready to ship,
Lane's Mountain View Greenhouses,
RUTLAND, VT.

THOMAS YOUNG, JR.,
=WHOLESALE FLORIST,=
20 West 24th Street,
NEW YORK.

**Sole Agent for the Following
well-known Growers:**

ERNST ASMUS,	-	West Hoboken, N. J.
W. H. DE FOREST,	-	Summit, N. J.
PETER HENDERSON & CO.,		Jersey City, N. J.
JOHN N. MAY,	-	Summit, N. J.
S. C. NASH,	-	Clifton, N. J.
JOHN REID,	-	Jersey City, "
A. C. TUCKER,	-	Nyack, N. Y.
WEIGAND BROTHERS,		West Hoboken, N. J.

And many others.

ALL THE CHOICEST VARIETIES OF
ROSES, CHRYSANTHEMUMS, ORCHIDS, LILAC,
LILY OF THE VALLEY, TULIPS, ETC., ETC.

Hail Insurance.

The final test of the stability of the "Florists' Hail Association" was successfully met by the members upon whom an assessment was levied. Their prompt response removed the last doubt of its final success, if any misgivings still lingered in the mind of any "doubting Thomases". It has been conclusively proved during the past three and a half years of its existence that it has been of practical benefit to many, at small cost to its members. The F. H. A. has won its spurs by fair dealing. The directors and others have labored in season and out of season to achieve the success it has attained, and it is their ambition to make it the strongest hail association in the world. It is the duty of every American florist to assist and at the same time benefit himself by so doing. Will you do it?

JOHN G. ESLER.

C. H. JOOSTEN,

3 Counties Slip, NEW YORK,
-IMPORTER OF-
FORCING BULBS.
IMPORTED HARDY ROSES,
Strong Clematis, Etc., Etc.

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:

25,000 Dwarf budded Roses in sorts.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ponica in sorts.
2,000 Clematis, extra strong plants.
Trees, Shrubs, Evergreens, Conifers, Paeonias and other herbaceous plants.
PLANTS FOR FORCING AND DECORATING.
Address **P. OUWERKERK,**
P. O. Box 1845, NEW YORK CITY.
Catalogue on application.
Mention American Florist.

WE WANT YOUR ORDERS NOW —FOR—

Chinese Narcissus,

AURATUM, LONGIFLORUM, ALBUM, RUBRUM,
KRAMEI, ELEGANS, AND OTHER
JAPANESE BULBS.

CALIFORNIA LILY BULBS.

Australian Palm Seeds.

California Palm and Flower Seeds.

JAPAN PALM, SHRUB AND FLOWER SEEDS.

Our new Wholesale List of above, and of Trees, Ornamental Shrubs, Plants, Conifers, etc., now ready. SEND FOR IT.

H. H. BERGER & CO.,

P. O. Box 1501, SAN FRANCISCO, CAL.



JAPANESE PLANTS.

Trees, Shrubs, Bulbs, Seeds, Etc.

offered at low prices by

FELIX GONZALEZ & CO.

Direct Importers and Exporters,
303 to 312 Wayne and Crescent Ave.,
SAN FRANCISCO, CAL.

Wholesale Catalogue mailed free on application.

TUBEROSES.

We have yet on hand about 25,000 extra fine Double Italian Tuberoses. Also a few thousand Pearl.

CALADIUM ESCULENTUM. Any size from 6 to 15 inches in circumference.

AZALEAS. 4 to 6 inch pots, in bud.

CLEMATIS CRISP. 100 delivered free on receipt of \$1.00.

For prices write for our wholesale price list.

JAMES M. LAMB, Fayetteville, N. C.

FOR SALE.

THE CUTS

USED IN ILLUSTRATING THIS PAPER.

Write for prices on any which you have seen in previous issues and would like.

AMERICAN FLORIST CO.

CHICAGO.

SEND FOR A COPY

—OF OUR NEW—

TRADE DIRECTORY

Price, \$2.00.

AMERICAN FLORIST CO., Chicago.

BEGONIA TUBERS AND SEEDS.

The best quality in Europe.

Lowest prices ever offered.

Wholesale list and pamphlet with cultural directions mailed gratis on application. Send your orders promptly to **JOHN R. BOX**, (Established 40 years.) CROYDON, ENGLAND. EAST SURREY SEED WAREHOUSE.

R. VAN DER SCHOOT & SON,

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LARGEST GROWERS OF

HYACINTHS, TULIPS, NAR-

CISUS, SPIRÆA, LILIES

OF THE VALLEY, ETC.

Headquarters for Bulbs. Wholesale Importers should write us for prices.

Our new Bulb Catalogue is now ready. Will be mailed free on application.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Seedlings. They are the best at the lowest prices. "TRADE LIST" issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

BULBS—Am. Zeph. Rosea..... Doz. 100 100

AM. KESING..... 85 30 50 00

Andromeda Leptocarpus..... 7 50

Field ground..... 2 00

SEEDS—Antigonon Leptocarpus..... 100 100

Cosmos, white..... 5 lbs. 5 00

Alamanda Hendersoni..... 25 in. 50c per doz.

PLANTS—Clerodendron Balfouri..... 100 100

Florida Moss, 4 lbs. by mail, 75c.

Crimine, Panchromatic, Agave Americana.

THE BROOKS SISTERS, Sorrento, Fla.

J. A. DE VEER,

18 Burling Slip, NEW YORK.

SPECIAL OFFER OF

FORCING BULBS.

Dutch Hyacinths, in separate colors, single or

double, per 1,000, \$12.00; 100, \$3.00; 50c.

All colors mixed, single or double..... 100 40c

In fine varieties..... 7 00 1 00

Roussin Hyacinths, double, light pink

nearly white, one of the best for cut-

ting..... 2 00 0 35

Dark pink..... 2 00 0 25

Single bulb..... 1 00 0 15

Single bulb (scarce)..... 2 50 0 30

Tulips, in best varieties for forcing..... 3 00 0 45

In fine mixture of all colors, 1,000, \$9.00; 100, \$2.00

Narcissus, single, Burbidgei, pure white..... 2 75 0 45

" Poeticus (Pheasant's Eye)..... 1 00 0 15

splendid for forcing..... 2 25 0 40

Single, Princess, large golden yellow..... 2 50 0 40

Double, incomparable ("Butter and Eggs"), yellow, sweet scented, forced

well..... per 1,000, \$8.00; 100, \$1.50; 50c.

Orange Phoenix ("Eggs and Bacon"),

white and orange one of the best for

forcing..... per 1,000, \$10.00; 100, \$2.00

Fine mixed, for forcing, per 1,000, \$17.50; 100, \$3.00

In 10 best sorts, for forcing, 1,000, \$25.00; 100, \$5.00

Polyanthus Narcissus, Paper white

grandiflorum..... per 1,000, \$10.00; 100, \$2.00

Paper White, infant, novelty..... 2 00 0 35

Chinese or "Sacred Lily"..... 1 00 0 15

Grand Primo, white..... per 1,000, \$20.00; 100, \$4.00

Grand Soleil d'Or, yellow, per 1,000, \$22.50; 100, \$4.50

L'Honn Bataillon..... 10 00 1 50

Laudium (home grown), very large and

solid bulb..... 3 50 0 50

Chalcidomium, each, 25c..... 2 50 0 50

Excelsus, each, 40c..... 7 00 1 25

Harrisii, 25 in. circ., per 1,000, \$15.00; 100, \$3.00

Harrisii, 42c..... 5 00 1 00

Longiflorum 57 in. circ., per 1,000, \$10.00; 100, \$2.00

Pomponium Verum, 3 ft. bearing num-

bered flowers, of every color, extra

splendid for cutting, per 1,000, \$45.00; 100, \$9.00

Tenuiflorum, brilliant scarlet, recom-

mended for forcing..... 2 00 0 20

Amaryllis, Sarracenia, Nerine, each, 15c.

Valley Tulips..... 1 00 0 20

Vittata hybrid, large bulbs..... 40c.

Zephyranthes atamasco, rosea, large

flowering splendid for pots..... 85c. 0 50

Allium Hermetii grandiflorum..... 3 50 0 50

" Neapolitanum..... 1 00 0 20

" Pendulum..... 1 50 0 30

Calla Richardson alba maculata, spotted,

extra large, selected bulbs..... 7 00 1 50

Crimin Capense extra large bulbs..... 2 00 0 50

Cyclamen Persicum, first size bulbs..... 1 00 0 25

Cyclamen Persicum grandiflorum..... 18 00 3 50

Freesia refracta alba, home grown,

large bulbs..... per 1,000, \$12.00; 100, \$2.00

Freesia Leitchii major, home grown;

selected bulbs..... 2 00 0 30

Gladolus (Gandavensis) Seedlings, large

selected bulbs..... per 1,000, \$10.00; 100, \$2.00

Brenchleyensis, dazzling scarlet..... 85 00 1 25

Various shades of scarlet and crimson..... 1 00 0 25

pink and variegated..... 15 00 2 00

" white and light..... 12 00 1 50

all colors, finest mixed..... 12 00 1 50

Covillii alba ("The Bride"), white..... 12 00 1 50

Iris Anglica (English) mixed..... 85 00 1 25

Oxalis, in fine sorts..... 1 25 0 30

In fine mixture..... per 1,000, \$9.00; 100, \$1.50

Hyacinthus litran, large bulbs..... 1 00 0 25

Martium..... 10 00 1 50

Saxifraga granulata, n. pl., white, 2

large bulbs..... per 1,000, \$10.00; 100, \$2.00

Sax. Campanulata, blue..... 2 00 0 30

" alba..... 2 00 0 30

Sparaxis, finest mixed, for cutting..... 1 00 0 20

Tritonia Crocata, for pots..... 2 00 0 30

Tuberoses, "Pearl", extra size..... per 100, \$10.00; 100, \$2.00

PLANTS FOR FORCING.

Clematis (Dutch grown), strong, dor. Per

plant 2 year old roots, including the 100

doz. large flowering varieties..... 10 00 1 50

Deutzia gracilis, white, for forcing..... 8 00 1 20

Hortensia (new), white..... 25 00 4 00

for forcing, strong plants with root balls, 25

4 00

Hydrangea Fendleri Grandiflora

strong, 2 to 3 ft. tall..... 12 00 2 50

Lily of the Valley, true, Berlin

variety, per original case of 300, \$24.00;

per 1,000, \$85.00; 100, \$10.00..... 1 50 0 25

Lycium, strong climber, per 100, \$40.00; 100,

1 25

and handsome climber, covered with

brilliant red fruit in winter, rarely

grows in any soil, perfectly hardy,

strong plants..... 25 00 4 00

Rhododendron Cunninghamii, white,

for forcing, strong plants with buds..... 30 00 6 00

Roses, "Persia", yellow..... 40 00 8 00

hardy, semi-double, one of the best..... 30 00 6 00

Magnolia Georgea, extra large

bulb, luscious-like, the best, hardy..... 20 00 3 00

Spiraea arguta, splendid for forcing..... 20 00 3 00

Spiraea, strong climber, per 100, \$40.00; 100,

1 25

Palmata, carmine..... 25 00 4 00

Syringa, large, extra size..... 12 00 2 50

" leaf..... 12 00 2 50

Syringa Peckhamiana, Peckham's

on ice, standard, novelty of great merit, each \$4.00,

per 100, \$40.00; 100, \$5.00.

For other bulbs, plants, flower seeds, palm seeds,

etc., see Catalogue. Free to applicants.

CHRYSANTHEMUMS

For Exhibition.

So many expressed a wish for a duplicate set of the plants exhibited by me at Chicago and Indianapolis recently, I have prepared a list giving the numbers they were under as well as the corresponding names, together with the price by the set or 100, which list will be mailed on application to any who desire it.

M. A. HUNT,
TERRE HAUTE, IND.

STOCK PLANTS OF

New Chrysanthemums for 1890

Flora McDonald.

(Sent out by us last spring.)

Hill & Co.'s	Set.
Pitcher & Manda's	Sets.
Spaulding's	Set.
Waterer's	Set.
Hallok's	Set.
Hollis's	Set.
Pewkes & Son's	Set.
Allen's	Set.

Also all the best older sorts. Send for Price List, ready about Dec.

NATHAN SMITH & SON, 167 W. Monroe St., Adrian, Mich.

Verbenas Now Ready

ABSOLUTELY FREE FROM DISEASE.

Mammoth, strong,	\$4.00	\$35.00
General Collection,	1.25	10.00
Rooted Cuttings, Mammoth,	1.25	10.00
" " General Collection,	1.00	8.00

JACK ROSES.

3½-inch pots, \$5 per hundred; \$70 per thousand.

Address **J. G. Burrow,**
FISHKILL, N. Y.

AT LOW PRICES,

New, old and choice varieties,
healthy and true to name.

SEND FOR LIST AND SAVE MONEY.

VERBENAS.

20 vars. new seedlings, Mammoth strain,
per 100; \$3; per 1000 \$25.
Rooted Cuttings of same, 100 \$1; 1000 \$9.
Fine stock Heliotrope, 2½ in. \$3; per 100.
Double Fringed Petunias, 12 vars. 2½ in.
\$4.00 per 100.

Adiantums Cuneatum, Decurum and Graecillum, 6 inch, strong, \$15 per 100.
Primroses, double, per 100 \$12.00.
" " single, per 100 \$3.00.
Obconica, per 100 \$6.00.
Geraniums—latest Novelties.
Latania borbonica, 5 in. \$4.00, 4 in. \$3.00
per dozen.
Miscellaneous stock of all kinds.

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.

VERBENAS AND DOUBLE PETUNIAS

Double Petunia. One named variety, 3 in.	Doz.	Per 100
" " " " " " " " " " " " " " " "	2 in.	\$5.00
" " " " " " " " " " " " " " " "	1 in.	3.00
" " " " " " " " " " " " " " " "	1 in.	1.00
" " " " " " " " " " " " " " " "	1 in.	1.00
Verbenas, 2½ inch stock plants, standard kinds, 3 in.	5.00	
" " " " " " " " " " " " " " " "	2 in.	3.00
" " " " " " " " " " " " " " " "	1 in.	1.00
Manettia Vine,	3 inch, per doz.	35.00

A. GIDDINGS, Danville Ill.

IMPROVED GIANT VERBENAS.
The finest strain of the Mammoth type yet produced. By five years of high culture and careful selection have obtained this magnificent strain and justly claim it to be the finest in cultivation. Single flowers measure over an inch in diameter, borne profusely in large umbels. Finest colors. Be sure to sow of it. Per trade pkt. 25c, 3 pkts. 80c, 6 pkts. \$1.
JOHN E. RUFF, Shrewsbury, Pa.

HILL'S SET

— OF —

CHRYSANTHEMUMS

FOR 1891.

There are so many "pretty good" seedlings in the field this year that it is the easiest matter in the world to make up a "set" and give them descriptions that prove most delightful reading; but what the florists want for '91 is a set, not "pretty good" but absolutely **FIRST RATE**, and with a record behind them that will warrant them premium winners at the next exhibitions; this is what we claim for our new set which cost us over \$1,000, but we got the best!! Read the records of the shows.

WIDENER, EMLER, MRS. SARGENT, JNO. LANE, MOLLY BAWN

AND OTHERS, ALL PRIZE WINNERS WERE DISTRIBUTED
BY US LAST YEAR; THIS YEAR'S ARE PAR EXCELLENCE.

1. FLORA HILL, finest white in existence. Special certificate at Indianapolis.
2. SUGAR LOAF, First Premium at Cincinnati.
3. MRS. ISAAC D. SAILOR, Sailor Prize at Philadelphia.
4. BLACK BEAUTY, Blanc Prize at Philadelphia.
5. JNO. GOODE, the finest cut flower variety we have yet seen.
6. FRANK THOMSON, Certificate of Merit at Indianapolis.
7. MRS. J. G. WHILLDIN, Wailludin Prize at Philadelphia.
8. EMILY DORNER, First Class Certificate at Indianapolis.
9. R. MAITRE, In the set of six seedlings which won the \$100 at Indianapolis.
10. PHILIP BREITMEYER, Splendid yellow of Lincoln type.
11. C. W. DEPAUW, Fluffy pink.
12. ELMER D. SMITH, Immense incurved scarlet maroon.

ALSO A MOST COMPLETE ASSORTMENT OF THE VERY FINEST
CHRYSANTHEMUMS IN ALL THE NEWER SORTS AND
THE BEST OF THE STANDARD VARIETIES.

Send for our Trade List containing full descriptions and prices.

E. G. MILL & CO., RICHMOND, IND.

CHRYSANTHEMUMS.

YOUNG PLANTS.

T. H. SPAULDING,
ORANGE, N. J.

VERBENAS

VERBENAS, strong and healthy.

Ready for immediate shipping,	Per 100 Per 1000
General Collection, 2½-inch pots,	\$3.00 \$25.00
" " " " " " " " " " " " " " " "	4.00 30.00
" " " " " " " " " " " " " " " "	1.25 10.00
General Collection,	1.00 8.00

ROSES.

Perla, Mammoth, Brides & Sout, d'un	
Aml, strong plants, 3-in. pots,	7.00 65.00
Hybrid Perpetuals, open ground,	\$8 10.00
Hardy Climbers, open ground,	\$8 10.00
Tees, from open ground,	\$4 6.00
Amplexipolia Veitchii, strong plants,	8.00 75.00
Begonia, Rex Types, 3 & 4 in. pots,	\$8 12.00
Viola M. Louise, rooted cuttings,	3.25 10.00
Heliotropes in variety, rooted cuttings,	1.25 10.00
Coleus in variety, rooted cuttings,	35 10.00

WOOD BROTHERS,

(Successors to L. C. WOOD & BRO.,) FISHKILL, N. Y.

Write to

S. B. FIELD, ROSELLE, N. J.

— for a price list of —

ROOTED CUTTINGS

COLEUS,

Geraniums and Alternantheras.

50,000 READY NOW. 50 VARIETIES.

Strong plants, 2½-inch pots,	\$2.50 per 100; \$25.00 per 1000
Rooted Cuttings,	1.00 8.00

Our Verbenas this year are the finest we have ever grown.

No Rust or Mildew.

Packed light, and satisfaction guaranteed. Sample on receipt of 25 cts.

J. L. DILLON, BLOOMSBURG, PA.

C. K. Hoffmeyer, Florist,

ALLEGHENY, PA.,

Has a few of the following CREAM of

Prize Chrysanthemum Cuttings

FOR SALE:

Moonlight, Mrs. Thompson, I. Canning, Puritan, Alphaeus Hardy, Jessie Barr, Mrs. Humphrey, P. Alfred, Pres. Hayden, Richard Elliott, Thunberg, R. Crawford, Admiration, Pres. Arthur, Mrs. Morgan, Mary Wheeler, Mandarin, A. Spaulding, Fantasia, A. Blanch, Lucretia, Monmouth, Duchess, H. Waterer, Leonard, La Chinoise, G. Reich, Source of Or. Mollie, Palma, and many others.
Prices on application.

CHRYSANTHEMUMS.

Stock plants that have flowered in the following varieties from 6 to 8 in. pots, strong, \$2 per dozen. Can be shipped without soil at low express rates.

Mrs. A. Hardy, Lucretia, W. H. Lincoln, Mrs. Geo. Bullock, Jessica, Lilian Bird, Alfred Warner, Robt. Crawford, Robt. Craig, Edna Craig, Mrs. Levi P. Morton, Puritan, Mary Wheeler, Moonlight, Mrs. Langtry, Mrs. Carey, Glorioso, E. Snowdell, Mrs. A. Carnegie, Ben d'Or, Mrs. Humphreys, Snowdell, Mt. of Snow, Blanche Niede, White Christine, Mrs. Frank Thomson, Dr. Metzger, Diana, Mme. Andiguer, M. Blanchcan, Mrs. J. B. Wilson, M. M. Ketter, and others.

H. L. PHELPS, Springfield, Ill.

Flowers by Telegraph.

A circular with a display head reading "Flowers delivered by telegraph" has been received from Mr. C. B. Whitnall of Milwaukee. We append the body of the circular.

"We will deliver flowers fresh and promptly without the aid of express companies in the following cities just as satisfactorily as we do at home.

"No charge for transportation to New York City, Philadelphia, Boston, Albany, Washington, Cleveland, Pittsburgh, Buffalo, Denver, New Orleans, Omaha, San Francisco, Los Angeles, Cincinnati and Detroit. We are prepared to do a local trade in all these cities for the accommodation of our customers who have friends residing or traveling there.

"If you hear of a friend who is taken sick in Philadelphia, give us name of hotel he is at and we will send a bunch of roses as promptly as if he were in the Plankinton House, or if your best friend sails for Europe to-morrow from New York, give us your friend's name, name of boat, etc., and we will have a bunch of violets put in her state room with your card attached, just as easily as if the boat sailed from Milwaukee Bay."

On the margin of the circular sent was written: "Can you detect anything visionary about this?"

No. Can't say that we can. We presume that arrangements have been made with florists in the cities named to fill orders sent by telegraph. It is an adaptation of the system of telegraphic money orders and will certainly prove very convenient to customers at times.



A LONG ISLAND INCIDENT.



ROSE HILL NURSERIES,
New Rochelle, N. Y.
NEW AND RARE PLANTS,
HARDY PLANTS,
Orchids,
Palms,
Ferns.
CUT ORCHIDS AT ALL TIMES.

ORCHIDS.

Unestablished Odontoglossums.

Splendid plants, per 100, \$25, with full directions for mounting and cultivating.
ASSORTED ORCHIDS, containing 10 different varieties, per 100, \$25.

BRACKENRIDGE & CO.,
Established 1854. **Govanstown, Md.**

Mention American Florist.

CARNATIONS.

Strong 1-in. Strong 3-in.
per 100 per 100

Hinze's White.....	\$ 6.00	\$9.00
Chester Pride.....	6.00	9.00
Wm. Swayne.....	6.00	9.00
Century.....	7.00	10.00
Geraniums, choice varieties, 3-inch,	3.50	
Asparagus Tenuissimus, 2½-inch,	4.00	
Begonias, large stock, all sizes and vars.		

Address **N. S. GRIFITH,**

JACKSON CO. INDEPENDENCE, MO.
(Independence is well located for shipping, being 8 miles east of Kansas City.)

Mention American Florist.

ORCHIDS.

Still a big lot of Fresh Imported Plants, mostly Cattleyas, on hand.

Also an immense stock of **Well Established Plants,** best sorts for florists to grow for Cut Flowers, at very low prices. Send for price list.

FREDERICK MAU,

Box 322.

South Orange, N. J.

ROOTED CUTTINGS.

— Send for List. The prices and quality are sure to please. —

CARNATIONS—All the leading sorts and novelties. Eight 100 foot houses.

COLEUS—Twenty-four varieties. A sample of each for 25 cents, free by mail.

GERANIUMS—A choice assortment in mixture, at \$10.00 per 1000.

ALTERNANTHERA, French and other **CANNAS**; also other items of interest.

CARNATION NOVELTIES.

About January 1st I will issue a complete list of Carnation Novelties for '91; it will be mailed to all my former customers, and to others on application. No one interested can afford to place their order before seeing it.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

LIZZIE MCGOWAN.

I will be prepared to distribute my **NEW WHITE CARNATION** Feb. 10, 1891, and the price will be \$12 per 100, or \$100 per 1000, for Rooted Cuttings propagated. **STRICTLY HEALTHY PLANTS.** Special discount on large orders.

Cash or its equivalent should accompany orders from unknown correspondents. Send for descriptive circular. Parties wishing a few flowers of this **GRAND Carnation** can have them by enclosing twenty-five cents in stamps.

ADDRESS

JOHN MCGOWAN,
363 Main Street, **ORANGE, N. J.**

Lizzie McGowan.

I beg to announce to the trade that I shall be prepared to distribute this magnificent **NEW WHITE CARNATION** on the 10th of February, 1891, and that the price will be \$12 per 100, and \$100 per 1000, for strong well rooted plants from the cutting bench. Favorable special rates will be allowed on large quantities. Cash or its equivalent should accompany orders from unknown correspondents.

Send for descriptive circular of this and other sorts. Parties wishing a few flowers of Lizzie McGowan can have them by enclosing twenty-five cents in stamps.

ADDRESS

H. E. CHITTY, PATERSON, N. J.

"GOLDEN GATE" CARNATION.

This is by far the finest pure yellow yet produced, a seedling of **HINZE'S WHITE**, fertilized with **FIELD OF GOLD**; having much the character of Hinze's, but more dwarf and early flowering. It is a deep golden yellow, without stripe; healthy and free.

Will book orders for plants to be delivered in February, at \$2.50 per dozen; \$20.00 per 100. Will mail sample blooms on receipt of 15 cents.

CHAS. T. STARR, Avondale, Chester Co., Pa.

CARNATIONS.

New Seedling Carnation "Victor," brilliant scarlet; has no equal of its color; ready for delivery January 1, 1891. Catalogue ready December 30, 1890. Also plants from 2½-inch pots and Rooted Cuttings of "Mrs. Fisher," the leading white.

Also many other varieties.

R. T. LOMBARD,
WAYLAND, MASS.

Rooted Cuttings of Carnations

of all the Standard Varieties ready Dec. 1st.

Having added another 100 foot house to our Carnation Department, hope to be able to furnish any quantity desired, on short notice.

Orders for future delivery at 10 per cent off from catalogue price.

JOS. RENARD, Unionville, Chester Co., Pa.

OPEN LETTER TO FLORISTS.

Something

For Amateurs to Read.
For you to Profit By.

My Dear Sir:

The more interest your local customers take in the culture of plants, indoors and outdoors, the more will your trade increase.

Sell them the "best" in garden literature, just as you do in plants, and your trade is secure.

We have sent you a copy of the Christmas Garden (if not received ask for another). Look it over carefully, and

we know you will say it is easily the "best" gardening magazine in the world.

The price is \$2.00 a year. If you will act as our agent we will send you posters and circulars for, and allow you 75 cts. commission on each subscription you send us. To get this price (\$1.25 net), send us two subscriptions on your first order.

Copies of that "Window Gardening" supplement with your card on margin in red ink, for \$3.00 per hundred copies, (less than half cost).

Yours sincerely,

THE RURAL PUBLISHING CO.—E. H. L.

Time Building, NEW YORK.

THE AMERICAN GARDEN is a magazine for all who love nature, flowers, fruits and gardens. it is bright, energetic, useful. Many new features will be introduced in 1891, we can name only a few here:

AUTOMATIC GREENHOUSES: that is, automatic heating and ventilation—our inventions, which have been given to the public gratis—will have further experimenting in capable hands.

COLORED PLATES, beginning with a superb 15-color plate of seedling Begonias in January, will be a striking feature of the year.

JAPANESE EDIBLE PLANTS. Running through the year, by Prof. C. C. GEORGESEN, for three years in the Imperial College at Tokio. The most important contribution ever made to our knowledge of Japanese horticulture.

FRUITS AND PLANTS FOR THE COLD NORTH.

NEW AND INTERESTING FLOWERS AND PLANTS in Kew and other parts of Europe.

FRUITS AND VEGETABLES UNDER GLASS.

NEW VARIETIES IN FLOWERS, FRUITS AND VEGETABLES. We now publish more portraits of plants than any other journal in the world.

HORTICULTURE UPON THE PACIFIC SLOPE.

LANDSCAPE GARDENING, in many features, will be prominent for 1891.

HORTICULTURE IN THE SOUTH. Comprising the latest features in fruits, vegetables, ornamentals, and artistic gardening, by well-known specialists.

RARE ORCHIDS AND TROPICAL PLANTS.


GREENHOUSE PLANTS AND MANAGEMEMENT.

NOTES FROM A GARDEN HERBARIUM. Making plain the confused botany of cultivated plants.

Terms to Subscribers: One Year, \$2.00; Six Months, \$1.00; Three Months, 50 Cents.

THE RURAL PUBLISHING CO., TIMES BUILDING, NEW YORK.

IN CLUB with the AMERICAN FLORIST, both ONE YEAR, \$2.50.

 Address orders to either office.

Foreign Notes.

AN EXHIBITION of the numerous and diversified articles required in the various branches of horticulture will be held at the Crystal Palace, London, March 3 to 21 next.

THE ENGLISH gardening papers for November 20 and 22 contain lengthy obituary notices of the late Shirley Hibberd, whose death was recorded in the *FLORIST* of November 27. Mr. Hibberd was present at and took a prominent part in the Centenary Festival of the English National Chrysanthemum Society November 13, only three days before his death, reading a very interesting paper on the "Origin of the Florists' Chrysanthemum."

THE TOTAL number of cut flowers staged in competition at the Centenary exhibition of the English National Chrysanthemum Society was 3,837, and there were in all 145 trained specimen plants.

A FIRST CLASS CERTIFICATE was awarded to Berberis Thunbergii at a recent meeting of the Royal Hort. Society of England.

AN ENGLISH newspaper reads the chrysanthemum growers a lecture on "The immorality of flower shows" in "faking" flowers up to a certain standard of perfection, and says that many of the prize flowers are "perfect" to a suspicious degree.

AN international exhibition on a large scale in which horticulture is to play a considerable part is to be held at Palermo, Italy, in March and April next.

DR. JANKA, the botanist, died recently in his fifty-fifth year. He was keeper of the botanical department of the National Hungarian Museum at Buda-Pesth.

A great chrysanthemum show was held in Paris, France, November, 20 to 23.

THE Pomological Society of France held its annual meeting at Limoges September 22.

HOLIDAY ORDERS

FOR—
FANCY BASKETS, POT HOLDERS,
PALM STANDS, POT COVERS,
IMMORTELS, DOVES,
MEMORIAL DESIGNS of Metal Foliole
and Porcelain Flowers, Etc., Etc.,
SHOULD BE SENT NOW TO INSURE
PROMPT DELIVERY.

Our Illustrated Catalogue giving full information mailed free to the trade on application.

AUGUST RÖLKER & SONS,
156 West 24th Street,
NEW YORK, STATION E.

FLORAL DESIGNS.

The help for Cut Flower workers.
162 pages, colored plates. Edition
nearly exhausted; speak quick.
Address (with \$3.50 for the book)

J. HORACE McFARLAND,
Box 655, HARRISBURG, PA.

SMILAX.

2000 Heavy Strings, at \$15.00 per 100
strings.

WM. CLARK,
COLORADO SPRINGS, COLO.

5,000 Spirea Japonica, fine clumps, per 100, \$3.50.
5,000 (one) Jacq. Rose plants, fine pots, per 100, \$5.00.
Coleus Cuttings rooted, Verechattelii, per 1000, \$7.00.
—Golden Beller and Golden Verechattelii, \$10.00.
JOHN RECK, Bridgeport, Conn.



Diagram Showing
how perfect drainage
and ventilation
is secured.



Parties who have used this pot say that hereafter they will use no other.
Patented and Manufactured only by
THE WHILLDIN POTTERY CO., 713 & 715
WHARTON STREET, Philadelphia, Pa.
Agent for the New England States, M. J. McCARTHY, 27 Otis St., Somerville, Mass.

STANDARD FLOWER POTS

On and after November 1 these prices will take effect on the following sizes.
Terms cash with order.

Size.	Price of 1000.	No. in crate.	Price per crate.
1 1/4 in.	\$2 25	2000	\$4 50
2 "	2 70	1500	4 00
2 1/2 "	3 00	1200	3 60
2 3/4 "	3 20	1000	3 20
3 "	4 20	720	3 00
3 1/2 "	6 30	575	3 00
4 "	7 30	407	3 00

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JOHN G. ESLER, Sec'y, Saddle River N. J.

S. A. F. Attention

Our defeated competitor in "Standard" Flower Pot contest at the Boston meeting, for the **Certificate of Highest Merit**, reflects on the members of the Committee of Award as not being impartial in their decision. The members of that Committee were M. A. Hunt, Terre Haute, Ind., Chas. Henderson, of the firm of Peter Henderson & Co., New York, and Wm. K. Harris, Philadelphia, Pa. No fairer or more competent committee could be selected from the members of the S. A. F., and as far as diligent inquiry reveals, their decision meets with the approval of everyone excepting A. H. Hews & Co.

The official programme gave notice that the Certificate would be awarded to the display "which most nearly approaches the 'Standard,' such display shall consist of not less than one dozen of each size, made from working molds and not turned down." The sheet with drawings of the pots (which was gotten up by A. H. Hews & Co., under the instructions of the Committee of S. A. F. and sent to the different potters for their guidance) shows 17 sizes, and the number we exhibited; one dozen of each, as required. In regard to the statement published by A. H. Hews & Co., that "very many" of our pots were **"either ground, filed, turned or sand-papered to size,"** we wish to distinctly say that this is **FALSE**. The pots we exhibited for the Certificate were made exactly as we make them for our customers, and were not altered in any way whatever; in fact it is impossible to alter the inside measurement after a pot is once made; a mold that will make one pot correct will make any number (until the mold wears out) exactly the same. In reference to the absurd "propositions" of Messrs. A. H. Hews & Co., we decline to be a party to the proposed exhibitions as it would be a gross insult to the honorable gentlemen of the committee, who, after giving their time and labor to the society, are at least entitled to common courtesy.

As the report of the proceedings of the Convention at Boston, Mass., is now published; read carefully the reports of the Committee on Standard Flower Pots on pages 100 and XIV.

THE WHILLDIN POTTERY CO.,
713 & 715 Wharton St., PHILADELPHIA, PA.

S. A. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

Many of our friends agreeing with us that the award on Standard Pots at our late Exhibition was an unjust one, we shall use the advertising columns of the AMERICAN FLORIST to state our side of the question.

We asked the Executive Committee to give us an impartial committee of award. The following propositions should convince anyone whether **WE FEEL** that we have had such a Committee.

The following is the text of the matter in question, taken from the official programme:

"Manufacturers of FLOWER POTS are notified that a Certificate of highest merit will be awarded to that display of Pots shown at this exhibition, which most nearly approaches the Standard. Such displays shall consist of not less than one dozen of each size, made from working molds and not turned down."

One member of the Committee of Award said that we were not entitled to any award because we exhibited but fifteen sizes, while others exhibited seventeen, and that seventeen cuts were represented on a white sheet of Standard Pots. We fail to see that the award was offered for any specific number of sizes, but that twelve of each size should be presented. **A MUCH MORE IMPORTANT PART OF THE COMMITTEE'S ANNOUNCEMENT** was that the pots should be **MADE FROM WORKING MOLDS AND NOT TURNED DOWN**. We do not hesitate to make this public statement that the Flower Pots to which was awarded the Certificate of highest merit were **VERY MANY** of them **EITHER GROUND, FILED, TURNED or SAND-PAPERED** to size, and for that reason alone were not entitled even to a measurement by the Committee of Award.

WE WISH TO MAKE TWO PROPOSITIONS.

First. We will put up **\$1,000 in Cash** and submit the same pots exhibited at the late Exhibition against the pots exhibited by our competitor, and leave it to an impartial committee of three, and if our pots do not come the nearest to the requirements, we will present the \$1,000 to the fund of the Society of American Florists.

Second. We will put up **\$2,000 in Cash** and produce 500 pots of each size from 1 $\frac{1}{4}$ -inch to 7-inch inclusive, and 250 pots each from 8-inch to 12-inch inclusive, making 7,250 pieces, made from the same moulds in which the pots we exhibited were made, and all shall be of the proper thickness in all respects, against an equal number of pots made from the same moulds that produced the pots receiving the award, and if an impartial committee do not give us the award we will present the money and the pots to the Society of American Florists for an experiment station. And if we are allowed to choose one of the committee of three, we will select our honorable Treasurer Mr. M. A. Hunt, of Terre Haute, Ind.

A. H. HEWS & CO., North Cambridge, Mass.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VI.

CHICAGO AND NEW YORK, DECEMBER 18, 1890.

No. 133.

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54 La Salle Street, CHICAGO.

Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; WM. J. STEWART, 61 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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H. B. BEATTY, Sec'y, Oil City, Pa.

American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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IT IS REPORTED that no less than 239 new varieties of chrysanthemums have been registered this season with the Secretary of the American Chrysanthemum Society.

AS OUR NEXT issue will not reach many of our readers until after Christmas day, we take this opportunity to wish all a merry, busy and profitable Christmas.

Washington.

Palms, ferns and other ornamental foliage plants are very freely used in this city. Numbers are found in nearly every house whose occupants make any claim to social prominence and they are not wanting in many an humble home. The markets and stores are full of the sorts best adapted for house decoration. One of the florists here recently stated that he had some 12,000 plants of this description in his greenhouses, and I should judge he is not the most extensive grower in this locality.

The other day I noted among a lot of decorative plants in Studer's new salesroom on F street a specimen of *Nephrolepis davalloides furcata* with not less than 150 beautiful fronds measuring from three to four feet in length. There was also a fine specimen of *Nephrolepis rufescens triplinatifida* with fronds measuring five feet in length. A plant of *Nephrolepis exaltata* had over 200 fronds from three to five feet in length and a superb specimen of *N. davalloides* was not less than twenty-five feet in circumference and with fronds from five to seven feet in length.

So extensively are decorative plants in demand in this city for use at receptions and similar happenings that wagon loads may be seen passing in the streets almost daily. At a recent dinner it took ten wagon loads of foliage plants for the decorations.

A very pretty effect was achieved the other night by Small at a dinner given by Secretary Tracy to the Brazilian Admiral de Silveira. The table was oval and arranged for only 30 covers. Visitors to the Naval Department always admire in the main corridor two exquisite full rigged models five feet in length of cruisers recently constructed. These beautiful specimens of workmanship were this time charmingly utilized by placing them on stands in the open inner center of the oval table, imbedded as it were in a gently undulating, unbroken mass of light colored maiden hair ferns the one flying the American, the other the Brazilian colors, and representing two passing vessels saluting each other. These models so highly finished and perfect in every detail, the arrangement of the fern surface in ripple-like wavelets, and the light effects produced presented in miniature a highly artistic picture of two friendly cruisers meeting and welcoming each other in midocean.

This dinner was followed the next evening by one of a hundred covers given by the Brazilian Admiral to the Government of the United States, and owing to the short notice given must have taxed the florist to his utmost at this special season when roses are exceptionally scarce, but he proved equal to the task. The table consisted of an oblong open square 65x36

feet, the inner court or space being densely filled with select ferns whose crowns were even with the level of the table. The center piece consisted of a circular mound of moss, the base of which was framed with *Niphetos* buds, from this mound extended lengthwise each way some five feet, a spear shaped densely packed mass of *La France* buds, while vases filled with choicest specimens of *American Beauty* were dispersed amidst the great bed of underlying ferns, so that it had the appearance of a series of rose mounds of exquisite form, yet not so high as to obstruct the view. By actual count upwards of 800 *Beauties* alone were used in this feature of the decoration. From the center of the mound of moss arose a stately *Cycus revoluta*; towering far above the heads of the guests its graceful far-reaching branches imparted to the whole a light and highly artistic aspect. On the table proper along the inner edge were placed at regular intervals flat oblong baskets of *Jacqs*, *Brides*, *Wattevilles* and *Albanys*, with a golden chain as it were of *Perles*, single and in sprays, extending around the entire table. The bottom tiers were made of select orchids of which Brazil has given to the grower so many valuable sorts. On the whole this was one of the most elaborate and successful floral decorations ever attempted in this city upon so short a notice and speaks well for the promptness with which growers in divers parts of the country can respond to the demands the decorator makes upon them.

Z.

Boston.

The display of orchids at the Arlington St. Church on the occasion of the recent Ames wedding was superb. Mr. Robinson had been saving up his finest specimens for some time in anticipation of the event.

Mr. Chas. Storer the orchid painter has returned to Boston after an absence of over two months at Short Hills, N. J. where he has been painting for Messrs. Pitcher & Manda.

Mr. A. H. Fewkes' three best seedling chrysanthemums, *Waban*, *Tremont* and *Beacon* have been sold to Mr. J. C. Vaughan. The *Beacon* took first prize, a silver medal, as the best seedling shown at Boston this year.

Silver Spray and Mrs. Fisher seem to be the two leading white carnations in Boston at present. *Tidal Wave* meets the most sanguine expectations. There are more *Grace Wilders* grown here this season than ever before.

Galvin Bros. have greatly increased the size and attractiveness of their establishment on Tremont St. by leasing the store adjoining the one already occupied by them.

Mr. Fred Mathieson, who was captain

of the bowling team which represented Boston in the contest last August has been confined to his house for three weeks by a severe attack of rheumatism.

W. J. S.

New York.

Business poor in comparison to the corresponding date of last year, but every body anticipates a good Christmas and New Years trade.

The stores are putting on their Christmas drappings, and many beautiful and novel designs may be seen in the leading florists' windows.

The prospects are that there will be an abundance of flowers this Christmas, as the number of growers has been greatly augmented during the present year.

Large cargoes of holly and mistletoe are expected to arrive by trans-Atlantic steamers during the coming week. Importers say the samples received by them were unusually fine. Reports from all holly countries say that berries are plentiful this year.

Marsh pine, the importers say, will be scarce this year, owing to the Indian troubles in the northwest; why not employ the troops to gather our greens?

The docks along the North River for the distance of a half mile present a very country like appearance. Many thousands of fine spruce and hemlock trees are being piled up in readiness for the market. The principal part of these trees come from the evergreen woods of Maine.

The Peter Henderson Co. have an exhibition at their warehouse in Cortlandt street, a full line of French artificial flower designs, including corsages and garlands to wear at balls, and baskets intended for Christmas presents. Florists in general are questioning the consistency of this action.

Regarding artificial flowers in general (we regret to see the *Florists Exchange* lend its leading articles in praise of them) we can make an allowance for the poetry of the advertisers' imagination, but "flowery words" can not put flowery life, and the beauty of nature into metal and rags.

Flower trusts are the latest acquisition to the ranks of American monopoly, combinations of "greed and disappointment." Will these conspirators 'gainst all that's honest succeed? Well, we'll see.

Now that chrysanthemums are over, let us hope that the growers will select for next year the best varieties and discard the hangerson. Speaking of "mums," I heard Mr. Thorpe complain of the brand on exhibition at the recent show, it was rather "dry" John.

Mr. Chas. Farley, for many years with Thorley, is now associated with Scallen, the Broadway florist.

Lapageria alba is the latest acquisition to the flowers used for bridal bouquets and dress garlands.

A bridal bouquet composed of *Lycaete alba*, fringed with delicate fronds of *Adiantum Farleyense* and trimmed with French tulle veiling, was recently displayed in a Broadway artist's window.

Alex McConnell, of Fifth avenue, was very busy during the week, one of his decorations being the very artistic arranging of two thousand *Mermets* on a dinner table. A bank of these roses, with their own buds and foliage, with pink candles and shades to match, adorned the center of the table, garlands of the same rose extending and arranged in semi-circles among the dishes. Opposite each lady guest were arranged pretty favors in the shape of miniature poke

bonnets filled with *Mermets* and tied with long streamers of pink ribbons on which was painted the names of the guests. Large bouquets of McGowan carnations were arranged for the gentlemen.

Neapolitan violets are coming into favor. Orchids will be scarce this Christmas.

It may be said that there are more roses grown under glass at Madison, N. J., than in any other like space in the world. Here everything in connection with the cultivation of the rose is reduced to a science. Cleanliness is the mother of loveliness in the Madison rose-grower's eyes. At Mr. T. J. Slaughter's glass house city reigns the peerless American Beauty; a little distance away we come to Mr. P. Connolly's range of glass, beneath which can be seen the finest *Mermets* and Brides shipped to this city. A visit to these and surrounding rosaries would well repay a day's travel.

American Beauty is the queen, and it would seem that there are very few men able to grow this rose to advantage round New York. Puritan has disappeared despite many grower's efforts to popularize it; first class trade is greatly in need of such a rose.

Marchal Neil and Cornelia Cook have eloped leaving many regrets.

There is plenty of room for a rose the color of Helen Paul or Souvenir de la Malmaison.

Importers of roses inform us we shall soon be introduced to Capt. Naylor, in the shape of a new white rose.

Madame Hoste has not acquitted herself in the manner her brilliant introduction led us to believe she would. Though a beautiful rose, its color will only admit of its being used in a limited class of trade.

Souvenir d'un Ami, like many of our old friends, has gone leaving none to take its place.

We were made to believe that the fickle Duchess of Albany would eventually drive her great French rival (La France) out of the market, but our old love has never shone so brightly before, Vive, La France!

Madame de Watteville, and her sister Madame Cusin, are becoming more popular every year. There is a great future for these two roses, they are New York favorites.

Souvenir de Wootton was a great disappointment; it was introduced as a rival to the American Beauty; if it was classed with the Bennett or Papa Gontier, it might have met a different reception.

Papa Gontiers are scarce, perhaps its being the only red rose of any quantity in the market is the cause of its popularity, it has nothing but color to recommend it. We want more red roses—what's the matter with Meteor?

Bennets are very scarce. Bon Silene is also on the wane, taking with it many pleasant memories.

Niphetos, are abundant and a glut on the market, as its use is almost confined to funeral work. Brides and *Mermets* continue to be very popular. We are anxiously awaiting the Scarlet *Mermets* arrival.

JOHN YOUNG.

Chicago.

At the meeting of the Florist Club held last Thursday evening there was quite a discussion upon the details of exhibition management, as the result of a written communication sent in by a member of the club.

Mr. E. G. Hill, of Richmond, Ind., was present as a visitor and he made many

useful suggestions. He called special attention to the necessity of cutting chrysanthemum flowers when they were "ripe" in order to have them last well through an exhibition, and told how of two lots of flowers cut from the same plant, those cut one week soon wilted when placed on exhibition, while those cut a week later kept in splendid condition through a similar experience. He thought that a musical programme was a necessity at an exhibition, and that money and time expended in elaborately decorating the hall was a good investment. He believed in the arrangement followed by the management of the Indianapolis show in placing the price of admission at 25 cents during the day and at 50 cents in the evening, having the music during the evenings.

Mr. F. Huntsman, of Cincinnati, was also present and related some incidents in connection with the exhibition held there. Mr. Huntsman stated that the shortage on the exhibition given last month would amount to \$1,000. The possibility of a shortage had been provided for, however, by a guarantee fund, the cash having been paid in prior to the holding of the exhibition, and all obligations had been promptly met.

The subject was discussed by other members and there was considerable amusement at a suggestion in the communication from Mr. Bassett that the club appoint a committee, the members to arm themselves with scrapers and endeavor to remove the moss from the backs of some of the local florists who have heretofore remained in their shells and failed to give any assistance at the exhibitions. Action will be taken, probably at next meeting, regarding the preparation of a premium list for the exhibition of 1891.

Mr. Hill had on exhibition at the meeting a splendid lot of cut flowers from his seedling carnations which were very much admired. J. C. Vaughan also had on exhibition a vase of cut blooms of the Waban rose, a spike of flowers of the Anna Mm. Crozy, and specimens of lily and tuberose bulbs.

A committee of three was appointed to confer with Director-General Davis in regard to matters in connection with the Horticultural Department of the World's Columbian Exposition.

The first regular meeting of the Horticultural Society of Chicago will be held Saturday, January 3, next.

Among the enthusiastic members of the new horticultural society is Mr. W. H. Rand, of the well known publishing house of Rand, McNally & Co.

Hortensia M. Black has opened a floral store at 69 Washington street.

The blooms of the Waban rose shown by J. C. Vaughan at the last meeting of the Florist Club were equal to the best *Mermets* in size, being much larger than those shown by him at the exhibition in November.

The report that the Horticultural Department of the World's Columbian Exposition would not be organized until spring proves to have no foundation in fact. We are assured by Director-General Davis that he fully recognizes the necessity of an early organization of the department and that the appointment of its chief will be made within a few weeks.

Mr. J. T. Anthony is able to be round again much to the pleasure of his many friends.

WHEN WRITING OUR advertisers, readers will oblige us by stating that they saw the adv. in the AMERICAN FLORIST.



HOUSE OF CHRYSANTHEMUMS AT JOHN H. TAYLOR'S, BAYSIDE, N. Y.

Philadelphia.

Winter seems to have set in at last. The thermometer has registered 10 above zero, this with some four inches of snow, has made one careful how he sends out his stock.

Chrysanthemums are about done although Messrs Harris and Craig have quite a lot of fine flowers and think they will be able to carry them until Christmas. The rose has begun to assert itself however and when the two are compared now, the mum is not in it.

Dennison Brothers at Bala are growing the Bennett to perfection. We overheard a grower say the other day that he would never plant another Bennett, but we think if he would pay a visit to Dennison's he would change his mind. There are over 5,000 plants of this variety well planted in solid beds in the center of 20-foot houses, the side benches being reserved for other varieties. The plants are in perfect health, covered with buds on stiff stems and of good color. They say it pays them better than any other rose they grow. They have fine La France, Mermets, Perles, etc., but they say the Bennett is the rose for them.

There is considerable talk about the classification of roses. It is to be hoped that something will come of it. The man that sends in one hundred roses, ninety good, and ten poor ones, would never accept ninety cents for a dollar, but if one complains of the ten poor roses, he's a kicker of the worst kind. The time may come when everything will be just right, we hope we may live to see it, in the mean time, let the flowers be classified, and let the man that wants the best and will pay the best prize, get the best.

Hugh Graham's Son has changed the front of his store and put in two flaring windows in place of one large square. The change is quite an improvement and the front now presents quite an attractive appearance.

Mr. C. H. Grigg has opened a fruit and confectionery store on Columbia avenue below 18th. Cut flowers may be kept in stock after a while, but are not leaders at present.

The club house may be said to be finished, and great credit should be given to Mr. John Westcott who has labored very hard and given great attention to the details of the work. There is an attendant present to set up the pins, and in a short time a pool and billiard table will be added. Several matches have been played but no great scores made, still everybody seems to enjoy the game and the alleys promise to become very popular. William Craig, Robert Craig's oldest son, has been quite ill, but is reported better and hopes to be about soon.

Wunder Brothers, of Pittville, are sending in some very fine Mermets. They are the best seen in town this season.

Prices are a peg higher, La France, Mermets, Brides, Cusins, Hostes \$8 to \$10; Perles, Gontiers 4 to 5; Beauties 35 to 50; carnations 1½ to 2.

Vases made of indurated fibre ware are the best for cut flowers; they are very light and it is impossible to break them, they cost very little more than earthen ware and will last a life time. K.

THE CHRYSANTHEMUM was introduced into England just 100 years ago, but it has been cultivated in China and Japan for probably 5,000 years.

Chrysanthemums for Cut Flowers.

We present herewith a view of a house of chrysanthemums grown for cut flowers at Mr. John H. Taylor's, Bay Side, L. I., N. Y. The photograph from which the engraving is made was taken by Mr. W. S. Allen, the wholesale florist of New York City, and it was certainly excellent for the work of an amateur photographer.

We append some notes regarding the propagation and care of the plants in the house shown, sent us by Mr. John Smith, foreman for Mr. Taylor.

"As requested, I send you a few notes on the method of growing the chrysanthemums of which you have received photographs from Mr. W. S. Allen, and will commence with the propagation. The cuttings were put in from the beginning of April until the first week in May, and when potted the earliest cuttings were stopped once before planting out.

"On the 3d of June they were planted out in the benches, which were filled to the depth of four inches, with a compost of two thirds rotten sods, one third rotten manure and a small portion of bone flour. They were planted at a distance of twelve inches each way. When they commenced to grow they were all stopped and during the growing season all weak shoots were taken off and only those calculated to produce fine flowers left.

"As soon as the buds could be seen the plants were supplied liberally with manure water. In disbudding we seldom leave more than one bud to a shoot, the object being to get fine flowers. To support the plants we use strong twine instead of sticks, fastened to wires across the benches and others over head.

"The bench of *Grandiflorum* of which you have photo contained 630 plants, and in that number had only two plants that showed any tendency to produce blind wood which *Grandiflorum* is very apt to do; this we attribute to careful selection. The other bench contained 810 plants of the following sorts: *Syringa*, a pink variety; Mrs. Mary Isaac Thomas, one of the finest whites grown, and a few *Pelican*, a fine white.

"On the side benches were planted Mrs. George Bullock and other fine sorts, making a total of 1,750 plants in the house. "The total number grown this season was a little over 8,000 plants."

Madison Square Garden Exhibition.

POINTS OF CONTACT.

When the crowds congregated at the table where the chrysanthemums were shown on the regulation stands, that is, where each flower was shown individually on a flat surface, during the whole of the exhibition, lines 150 feet long and 2 to 3 persons in width, crowded each other.

POINTER NO. 1.

In front of the magnificent bank of cypripediums, such a bank as has never been seen before, the crowds surged to such an extent as to necessitate the very strongest of iron posts and the thickest of strong rope, to prevent tramping them under foot.

POINTER NO. 2.

Around the economic plants, especially where a few of the plants were placed separately on three feet round tables, with large plainly inscribed placards 16x12 inches with for instance,

THEA BOHEA,

THE TEA PLANT.

the crowd congregated; there were no less than a dozen of these tables.

POINTER NO. 3.

The group containing a fruiting banana and half a dozen pineapples in fruit, correctly labelled as in the economic plants, was always surrounded by a crowd.

POINTER NO. 4.

The 40 feet high *Latania* (*Livistona*) *Chinensis* with a large placard attached was also a feature.

POINTER NO. 5.

A table of Mrs. Alpheus Hardy chrysanthemums, 200 plants in number, was an attraction. A table of miscellaneous chrysanthemums in 6-inch pots, containing many good flowers, was passed without notice by the crowd because it came before the flowers shown on the stand. Of course connoisseurs did not neglect it.

I venture to say that there never has been an exhibition held where more pleasure and more instruction was given.

Were there no weak points? somebody will ask. Of course there were. But the thing is for somebody to improve on what has already been done.

JOHN THORPE.

Spring Exhibitions.

Will some of your readers who have had experience in arranging spring shows kindly give a short account of their plan, i. e., if on tables, height of same, and if say all the hyacinths are grouped by themselves or arranged for effect among primulas, azaleas, etc.

H.

Management of Exhibitions.

ED. M. FLORIST.—You ask for suggestions that may be of benefit to managers of future flower shows, and as I have had some experience showing where certain changes would be beneficial, I advise the following:

First. Let all entry numbers be consecutive, no matter through how many classes they run. In some places each exhibitor is given an entry number which he retains through all the classes in which he shows, and an unworthy judge who wishes to favor an exhibitor soon learns to know the entry numbers of prominent competitors.

Second. Do not limit the size of pots. The judge, if worthy of his place, will make due allowance for this.

Third. Make no distinction between professional florists and amateurs or private gardeners, as there is no reason for any.

Fourth. Let the judging be done by one person, or if he can not judge all in time let him be sole judge of a part of it and some other person be sole judge of the remainder. In this way the management will be likely to select a proper person for judge, the judge will do his work carefully and thoroughly, and one man is directly responsible for the decisions. A competent man may be associated with two or three unfit ones who may outvote him and award a prize to mere size or number that should have gone to quality or condition. The minority judge can not remain by the prize card to explain that he was not responsible for the award and thus seems to stultify himself in the eyes of those visitors whose opinion is worth having.

Fifth. Let your judge make his awards by any method he may think best. Do not insist that he shall score each exhibit or judge by a scale of points. If competition is close in any class he will (mentally at least) resort to such a scale. At the same time he should be familiar with the system and competent to make and sign written score cards when such are really necessary. Judging is best done by direct comparison of competing entries. The point system of judging has been in use at poultry exhibitions in this country for twenty years or more. I have been an interested observer of its results either as an officer, an exhibitor or a judge, and I am satisfied that it has no advantages over the older method; and the most intelligent breeders show a growing tendency to abandon the system in favor of judging by direct comparison. In the hands of a thoroughly competent and impartial judge the system is well enough except that it requires too much valuable time, but in the hands of such a judge any system is well enough, in fact satisfactory results depend altogether on the man who does the judging.

I think we have made no improvement on the old plan of judging flower shows in use in England fifty years ago. Then competing exhibits were staged side by side under the direction of an active managing committee. When all were in place (as they were promptly) the hall was cleared of everybody except the managers and necessary attendants and the judge. The judge with the prize cards or ribbons in his hands was shown the different entries in each class, made his awards, tied on the ribbons or attached the prize cards, while the secretary immediately entered the result in his entry book. The work was quickly done; the judge had no bookkeeping to do, nor did he have to wander all over a large hall

looking for missing exhibits, crowding among a throng of visitors and perhaps without any assistance from the officers of the society; the doors were opened promptly at the time advertised, visitors came and found everything in place and prize cards all on.

Sixth. Set plants (at least those of sufficient size) directly on the floor, protecting them by a light railing if necessary. By doing so you not only save the cost of staging but they show to much better advantage when below the level of the eyes than when above it.

Seventh. Make few rules and regulations, be sure those you do make are necessary and right and enforce them strictly.

W. T. BELL.

Long Island Notes.

BY WM. FALCONER.

THE WINTER.—In the time a year ago we had a few open flowers upon *Jasminum nudiflorum*, *Lonicera fragrantissima*, and *Hamamelis Japonica*, but today not only is there not a bloom anywhere but there isn't even a bud ready to burst open.

CHRISTMAS ROSES (*Helleborus niger* var. *maximus*) may not hold up their heads as boldly or last as long as one would like, at the same time they are very handy flowers to have at this time of year.

ASPIDIUM FALCATUM is a common greenhouse fern with broad, glossy pinnae. Young or middle-aged plants of it are very much liked for setting around palms in vases. And these little ferns are excellent house plants.

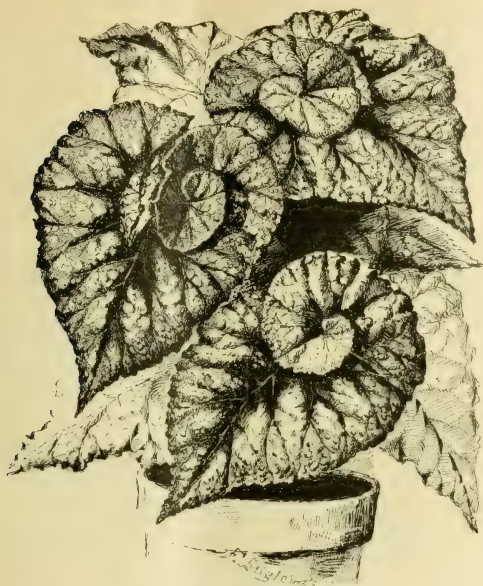
THE VARIEGATED-LEAVED *Elaeagnus* are among the most beautiful of hardy shrubs, neat, striking and evergreen. But I am not yet satisfied that they are reliably hardy, for our last two winters were exceptionally mild. As pot plants however they are prettier and nearer than a eurya.

HOLLIES.—In importing European holly bushes don't you find that the plants invariably lose most of their leaves on the passage? I am informed, however, that pot plants brought over on deck in summer do not do this. In the case of the Japanese holly, namely, *Ilex cornuta*, isn't this shedding of its leaves exceptional? Among exotic hollies none of the evergreen species are hardy here.

WE HAVE HAD 17° of frost three times within the last two weeks, and I find that *Grevillea robusta* survived the first shock but succumbed the next time; although the tips of the shoots of *Schinus molle* are pretty well curled up, the bodies of the plants are fresh and green as one could wish, young plants of *Eucalyptus globulus* are dead, but plants 8 or 9 feet high in sheltered places are living yet, only the ends of their shoots are dead. If it not the intensity of cold so much as the long continuance of cold that kills plants, and this is well shown by the fact that many plants are hardy at Washington where the cold is often greater than it is here, that are not hardy here, because our winters here are longer than they are there.

KEEP CALCEOLARIAS and cinerarias in cool airy houses, but near the light, and remember if they get infested with greenfly now, you may as well dump them out as be the trouble of trying to rid them of pest and recuperate them. And bear in mind that lots of tobacco stems, and cold tobacco smoke are better preventives than cure.

SERICOCARPUS GHIESBREGHTIANA with terminal panicles of scarlet flowers, now



BEGONIA OF THE NEW ERDODY TYPE.

in full bloom; *Libonia Penrhosiensis* with scarlet and yellow blossoms nearly at their best, and *Libonia floribunda* with scarlet and yellow flowers now beginning to open, are three of the December blooming plants one should grow in quantity, who wishes to keep up a gay appearance in his conservatory at this time of year.

ROSA RUGOSA is a native of Japan, and one of the hardiest and most ornamental species of roses grown in this country, where, however, it is more esteemed as a shrub than for its blossoms alone. The Japanese value it highly and call it "Beach Pear," because it grows wild abundantly on the sandy beaches, and its fruit is used as food.

EUONYMUS BARK SCALE is one of the evils I cannot circumvent. It appears on isolated as well as on grouped plants, on our choicest species as well as common sorts and there seems to be no practical help against it. Reputed remedies, so far as I have tried them, have failed to be successful. But the burn-pile is always a purifier.

CYPRIPEDIUM INSIGNE is the orchid for the million. It grows like a weed, blooms generously and from November till January, at a time when blossoms of any kind are desirable, and after the flowers open you can cut them today or leave them for a fortnight or more just as you wish and they keep first rate, and last well after they are cut.

ROMNEYA COULTERI (page 243).—Splendid in California. Lots of it have been

grown in the eastern and northern states this year, but don't be disappointed if it didn't bloom with you, for it seldom blooms the first year from seed. And it isn't hardy here. I lifted ours and potted them into empty butter tubs and put them into a deep cold pit there to stay over winter.

EMPTY BUTTER TUBS.—By the way, what nice things these are for plants in winter, and they are cheap and can be had in quantity at the town and village grocery stores. I use them for hardy shrubs as lilac, snowballs, etc. that we lift for winter forcing and for rhubarb and the like.

ASPARAGUS IN WINTER.—Mr. F. Boulton a Sea Cliff florist, near here, is now cutting some fine asparagus. He has a contract with a New York hotel for all he can raise between now and the first of February, at \$2 a bunch, the bunches to be of the same size as summer bunches. He tells me it pays him very well.

CHRISTMAS BOXES.—I always make preparation for a lot of these, each one to contain from half a dozen to a dozen plants. But much depends upon the weather. The plants principally used are Chinese primroses in full bloom—always great favorites; double-flowered scarlet geraniums in full bloom—liked by children; young grevilleas 12 to 24 inches high and feathered to the pot; English ivy, strips 12 to 24 inches long struck last August—ladies like them to put into water bottles on mantelshelves; umbrella

plants (*cyperus*) for those of æsthetic taste; myrtles (*myrtus*), bushy young plants that had been planted out in summer, and lifted and potted in September; and maidenhair ferns, which all desire for table plants. And flats—seed pans—filled with *selaginella* and young ferns are much esteemed. But *Pandanus Veitchii*, *Cocos Weddelliana* and *Asparagus plumosus* are the reigning favorites. Although *Draacena terminalis* does duty in most of the boxes, it isn't appreciated as much as some other things. Last year I had a lot of nice plants of *Retinospora plumosa nana* about 2 feet high and which were highly prized; although hardy shrubs, they last in good condition for a long time in the house. And I can assure you a little plant in bloom in a pot, or a little fern, or a small palm—a *latania* for instance, is a very acceptable Christmas present to little children.

Begonias, Rex and Shrubby.

The evident desire among florists to give the begonia a better place and more attention shows that this interesting class of plants is at last to receive its dues, though tardy. Their great beauty for ornamenting the greenhouse and embellishing the windows of the home has never been questioned, and their freedom of growth, easy culture and perfect cleanliness add greatly to their value.

The magnificent display of these elegant plants at the late Cincinnati show by Mr. Chas. L. Mitchell created a decided sensation. They were grown by that splendid plantsman, the late Richard Pritchard, whose knowledge of plants and skill with them was almost wizard like. It seemed a sad coincidence that he should die on the very day that these grand specimens of high culture were awarded first premiums.

In this collection were plants three feet in diameter of *Gloire de Sceaux* and *Ferdinand de Lesseps* grown in pans; *Metallica* and *Margarita* three feet high and the same in diameter; *Riciniifolia* four feet high by three and a half across; *Ric. Maculata* and *Rubella* only a trifle smaller. Among the Rex were *Cress L. Erdody*, *Queen Victoria*, *Lesonsdii*, *Clementine* and *Edward Pynaert*; these ranged from two and a half to four feet in diameter. Other beautiful varieties in the collection were *Diadema*, *Olbia*, *Semp. Elegans*, *Semp. Amelie*, *Compta* and *Prince Bismarck*. They were done so nicely and in such a vigorous way that they astonished even good begonia growers, and all wondered the more when it was known that all the plants shown were in 2½-inch pots last May, a splendid result of six months' culture.

Mrs. C. Riemann, of Indianapolis, made a most creditable display at the Indianapolis show, and while her plants were small in comparison with those of the Cincinnati exhibit, they attracted considerable attention and interest.

Many amateurs now number their Rex and shrubby varieties by the dozens, and they are still rising in popularity; a recent visit east revealed many varied and unique collections.

That they are of commercial value no one disputes. One of the most beautiful mantel decorations imaginable was made entirely of begonia plants and cut foliage, with the long flower sprays of the ornamental shrubby kinds filling the vases and epergnes.

B. giganta, a rosea grown on a bench as forcing roses are grown, is a very different plant indeed from the half striped specimen usually seen in a pot; in fact, all the

varieties like generous bench treatment, and the quantity of sprays with their exquisitely beautiful panicles of flowers that can be cut under this treatment is simply marvellous.

Begonias like a fibrous soil thoroughly chopped, through which a liberal supply of old rotted manure has been perfectly mixed; when placed in such soil and given the attention similar to that which the rose receives at the hands of a good cultivator, the result is all that could be wished. Let the skeptical try a few begonias under this style of culture and they will be delighted with the result; immense quantities of flowers and an exuberance of magnificent foliage will be the outcome.

The efforts of begonia specialists in the line of novelties both in Europe and America is bearing fruit as is witnessed by the beautiful sorts introduced during the past few years.

Among the shrubby flowering sorts Paul Braunt stands easily at the head. In leaf and habit it resembles Gilsonii, except that it grows very rapidly, it is a continuous bloomer, carrying such immense quantities of pink flowers on good stems as to form a pyramid of bloom. Unfortunately, owing to the limited amount of stock when disseminated, it is still scarce. In a few years this grand variety will be considered indispensable to every collection of plants.

Begonia Rex Ctes Erdody was quite a curiosity three years ago, although known to a few florists as long ago as 1875. In these three years no less than ten or twelve varieties of this type have been produced, several of them most beautifully zoned and marked. They are likely to become very popular, for like the parent, Erdody, they are strong rapid growers and improvements in point of beautiful foliage.

The hybrids of the Rex and shrubby sorts are now very numerous, and in this section we find our most useful class, splendid growers combining the grandeur of foliage found among the Rex, with strong, free growing qualities and easy culture of the shrubby sorts. Clementine may be taken as a good type of this class; we refer to this variety as it is now quite well known and widely disseminated. Bed this variety, or feed it well in a pot, and few of the Rex can surpass the splendid beauty of its foliage, while it sends up leaf after leaf with the greatest rapidity, forming a solid dense mass in a short time, the glistening metallic colors are very high and bright, curve it in a pot and it loses all its color, showing only a dull silver on a russet ground and turning very thin in texture.

We send engraving of Pearl Humfeld, one of the finest of this class and raised by ourselves from carefully fertilized seed. Out of several thousand seedlings, most of which reverted back to one or another of the types, some six or eight hybrids of this class were secured, which were of more than ordinary merit. We are beginning to find out why our French confreres ask such seemingly extravagant prices for their new varieties, count the time used in fertilizing, the watchful care needed in curing the seed, the sowing, potting and space required for housing several thousands of these plants; after potting they must be carefully watched for several months as the small seedlings rarely show their mature characteristics; many that look distinct and promising finally develop into very ordinary sorts, not worthy of either parent, while occasionally it is the "ugly duckling" which develops into beauty, the great majority,

however, being finally emptied from the pots as not worthy of cultivation.

This process makes the five or six which remain as the "survival of the fittest" pretty expensive specimens for their grower. However, as Mr. Carman told us at our annual meeting, there is a great deal of interest in this kind of work, though the interest does not always foot up in dollars and cents.

Beside Clementine, and outside of the newest undisseminated sorts, probably the finest examples of the hybrid Rex family are Lesondii, Mme. Allamagny, Isabella Bellon, M. Charat, Mme. Rival and Mme. Schmitt, most of which have been illustrated in your pages.

The Rex X subpeltata is also a most interesting class and universally admired. In 1888 four of these were imported into this country, Mme. Lionnet, Pres. Bourville, M. Hardy and Gloire de Juoy. By pretty general consent the first three have since been classed under one label as Mme. Lionnet, as there seemed no difference between them except in size of leaf, and no great difference in that respect. Mme. Lionnet, then, is a brighter, larger, finer edition of the older favorite, subpeltata nigricans, and is a jewel among plants. Gloire de Juoy must be seen in bloom to be appreciated, the contrast between its olive green foliage and large pink flowers is very fine.

In a class by itself is Gloire de Sceaux, another exquisite variety; it ought to be well known by this time, but though taken up and widely sold by the catalogue men, it is not known to the trade as it should be. The leaf is nearly round, very heavy and of a bright metallic plum color; the flower is large and of bright rose color in clusters; its beauty can not be put too highly, notwithstanding in its second year we came very near pitching it out for the simple reason that we could not make it grow, it looked starved and scraggly and homesick. Dropping into Wm. Hamilton's conservatories (Allegheny) one day we were surprised to find Sceaux in the best of health and spirits; magnificent specimen plants in full flush of rosy bloom. Mr. Hamilton had found they were fond of plenty of good food and accordingly was feeding them well, and that was the secret of the difference in our plants.

Two new varieties of greatest interest at the present moment are Pres. Carnot and Souv. de F. Gaulin; they are crosses between Rubra and Obbia, they are specially noticeable for the immense quantities of coral and carmine flowers produced; the writer saw them bedded out under the hot sun of Lyons last summer a complete mass of rosy scarlet bloom; we hope to find them good bedders in our own country; these are two novelties about whose excellence there can be only one opinion.

We conclude with two other fine sorts, about which many of your readers have probably heard. Tri. de Lemoine and Tri. de Nancy, they are crosses between Socotrana and Rozeili and are specially notable for their large flowers and their long continuance in bloom, six months at a time.

T. de Lemoine is a bright rose flower of great size and in large panicles, the higher flowers rise erect, while others droop slightly, covering the plant completely; shown at the Paris Exposition in 1889 they provoked universal admiration.

Tri. de Nancy is more dwarf than the former, and the flower is much deeper in color, reminding one of the Impatiens Sultan.

The raiser says that to insure their best condition in winter they must be bedded out during the summer to obtain the strong growth necessary to perfect such great quantities of flowers. All the above will doubtless be distributed in our country early in '91. E. G. HILL.



The question is often asked, what are the best fertilizers for roses? Of all that we have ever tried, pure animal manure is by far the best and much the safest to use. Of these, sheep manure stands first, more particularly for liquid application. For mulching and mixing with the soil to plant roses in I prefer clean cow manure from well fed stock. For liquid manuring, where sheep manure can not be obtained readily, I would advise the use of clear droppings from horse stables, that from well fed animals is best. As a change of food for the plants take clean chicken manure and give them an occasional watering. Where any of these can be obtained I would never advocate any of the manufactured fertilizers, but where such can not be had, or only in limited quantities, then the next best is pure ground bone, and for later in the season a very light dressing of nitrate of soda may be used to advantage.

For the general run of manufactured fertilizers, such as are offered by almost all chemical fertilizer makers, I have no use whatever as they invariably contain some ingredients that are injurious and often very destructive to plants under glass. This may appear to be rather severe on the manufacturers of this class of goods, but after years of careful trial and with a great many kinds of fertilizers we are compelled to abandon the whole. They all affect the plants in some shape or other; one may appear to make the plants grow well but will injure the color, another may do well for fine weather, but get a few cloudy dark days and the effect will be just the reverse of beneficial, another will burn the young growths on warm sunny days, and so it can be traced out all through the catalogue of mixtures.

Roses are very much like animals; if kept clean and fed with good pure plain food they will continue healthy and do more work than those treated to stimulants and unduly excited into activity. Of course there are always exceptions to this rule, but the exceptions occur where extra care and pains are taken in the application of stimulants.

No matter in what form they are applied, in the application of fertilizers of any class, the conditions and class of soil must always be taken into consideration. To put a heavy mulching of manure on a very stiff soil which is naturally retentive of moisture is simply suicidal, while a light sandy soil would be greatly benefitted by the same. And no two cases are ever just alike, so that it is simply impossible to lay down any set rule to go by. But the details of all these things must be studied and worked out by each individual to suit his own particular purpose.



BEGONIA PERLE HUMFELD

The same general law of nature is and always will be applicable to all roses grown under glass and forced for winter blooming, but oftentimes very much more depends upon the watering of the plants at a critical point than upon the actual food applied. I doubt not many will think me over critical when I express the belief that there is not one grower in fifty who rightly and thoroughly understands how and when to water a plant, yet every day's experience convinces me that we all have very much to learn in this direction.

But to return to the question, I would never advise anyone to put a dressing of ground bone on the surface of the soil and let it lay there uncovered, because a large percentage of its value would evaporate and be lost out of the ventilators. Neither do I advocate digging up the soil of the bed or benches to mix it in, but rather cover it with a thin coat of manure, if this is not available then a very thin coat of soil, just enough to cover the bone. Neither would I advise any one to put a coat of chicken manure alone over the surface of the soil, as it would undoubtedly destroy every root it came in direct contact with, but the same reduced to one third and mixed with some light manure or soil would be very beneficial.

Cow manure on the contrary can be applied in thin coats without any mixture whatever and be greatly beneficial. Sheep manure in very thin coats can also be applied without any additional mixture, but in that case much of the ammonia evaporates and is lost, to avoid this a very thin sprinkling of fine dry soil on top of the manure is better. Just one word of caution to those who wish to try bone, be sure you get it pure. Acids in any form are injurious, therefore get your bone free of them; even if the cost is considerable more it will be the cheapest in the end.

Summit, N. J.

JOHN N. MAY.

Boarding Plants.

ED. AM. FLORIST:—One of your correspondents recently explained his double entry method of bookkeeping in regard to plants left for treatment or storage. We do it without any bookkeeping and we think in a more simple manner. When plants are brought in each one is labeled with the name of the owner and date. When returned if storage is not paid a charge is made for it as in case of a sale; the label shows length of time to charge for, and the plant itself shows amount of space. If storage is paid and plants are

not removed, a new label is used and date changed to the time to which boarding has been paid.

Franklin, Pa.

W. T. BELL.



Answers to Questions.

SHADED GLASS.

In regard to frosted or ground glass for carnations, I have no doubt it would do quite nicely during the months of June, July, August and September, but for the balance of the season it will be found that as a rule we have none too much light for the perfect development of the flowers, and to bring out the colors to the best advantage requires all the sun we generally get through the dark winter months.

BONE MEAL FOR CARNATIONS.

If bone meal is used to mix into the soil at this season of the year it should be done with considerable care, especially if it is the genuine article; but it can be used in February or March with much more safety. I can not say, however, that I am much in favor of the use of bone meal for carnations. I think the disease that is now so prevalent owes its origin and existence in a great measure to that very cause, and if used at all it should be lightly sprinkled on the ground between the plants, then stirred in, care being taken that it does not lodge among the foliage of the plant; but a good deal of the material that is sold for bone meal is so harmless as to render these precautions unnecessary.

C.

New Carnations.

Wishing to know more of the highly praised Lizzie McGowan carnation than I could learn from the blooms exhibited and the press descriptions, before investing in it to any extent, I concluded to visit it in its two homes, Orange and Paterson.

The cut blooms seen at the various exhibitions gave me a rather poor opinion of it, but that opinion vanished at the first sight of Mr. McGowan's bed. The blooms were a uniform size, fully as large as the largest Lamborn, without a poor flower among them. The growth seems to be all that can be desired, being compact and yet very vigorous and clean. Taken all in all it takes first rank among the whites we now have, and originators will have to place their standard very high in order to excel it.

Mr. McGowan also has a new yellow, Louise Porsch, very similar to Buttercup in markings, but a trifle lighter in color. It is a very vigorous and robust grower and gives promise of taking the place of Buttercup, which seems determined to die out in spite of all the careful nursing it has had at the hands of various carnation growers. There are also a number of seedlings on trial here that were not in bloom, we will no doubt hear from them next season.

Mr. Chitty's bed of McGowan is almost a duplicate of that at Orange. Measuring a number of blooms here the average size was found to be 2½ inches, the smallest being 2½ inches in diameter.

Mr. Chitty also grows a large number of Lamborn and Tidal Wave, two carna-

tions that are not grown as largely as their merits warrant.

Grace Wilder from cold frames were being filled into the beds occupied by chrysanthemums earlier, thus securing double crop from the same house. In fact everything at this place from the handsome residence to the well planned and carefully worked greenhouses show that there is a thorough business man at the head. A thorough business education is quite as important as the scientific and manual training, and a feature that is too often neglected. A. M. HERR.

A Boston daily paper speaks of the chrysanthemum as the "floral dude" of the season.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a first class Scotch gardener, age 27; have had 12 years' experience in the business, and can take charge of either private or commercial place; first class references. Address J. Box 118, Morrison Ill.

SITUATION WANTED—By a first class florist, thoroughly posted in all branches, as foreman of a commercial establishment—a place where roses and cut flowers are made, is a first class florist. Mention salary. PRINCETON, care Am. Florist.

SITUATION WANTED—By a first class gardener and florist who at present has charge of one of the largest private places in this state. Grower of prize chrysanthemums. State wages. Address L. K. care C. F. Kummel, 130 Retreat Ave., Hartford Conn.

WANTED—Foreman and propagator, middle age, single habits good, good recommendations, steady, state wages. A. care Am. Florist.

WANTED—To either buy or rent several greenhouses with farm attached, near growing town. Address W. Box 38, Pomeroy, Conn.

WANTED—Good gardener to take charge of ferns and palms and to grow decorative stuff for retail store. Address HUNTSMAN FLORAL CO., Cincinnati, O.

WANTED—A competent florist and gardener for a commercial place, with experience in growing roses, forcing of bulbs and other flowering plants. Address with references and salary required, A. PETERSON, 41 West 4th St., Cincinnati, O.

WANTED—By a thoroughly practical florist (a Jerseyman) with 20 years experience, position as manager or foreman in a commercial establishment; roses & specialty, is a first class spot flower worker. Best of references. EDWARD E. SALYER, care Harvey W. Hardman, 16 Pulaski St., East Orange, N. J.

FOR SALE—A country hotel with greenhouse, in a prosperous Connecticut town. For particulars address HOTEL, care Am. Florist.

FOR SALE—Brand new double greenhouse, each 10'x20', ready for business, only greenhouse in live growing town of 5,000, best of reasons given. Address Lock Box 18, Beardstown, Ill.

FOR SALE—Florist business, thoroughly equipped and stocked. Doing a fine business at home and abroad. In a growing Ohio city. Must sell for good reasons. A good investment. Four houses. The real estate for sale or leave to purchaser. Price \$5,000. Address BARGAIN, care Am. Florist.

FOR SALE—A florist establishment, one greenhouse 75x18, and two 75x10 feet each, heated by hot water (Wentworth's); 25 acres of good land, some good and pasture, plenty fruit; dwelling house, barn and other out-buildings; good well and cistern. All buildings new and in good order. One hour from New York City, and one mile from depot. Price, \$4,800, will sell the greenhouse property separate for \$2,000. Address P. O. Box 10, Kansas City, Mo.

FOR SALE

A good established florist business in a western city of 40,000 inhabitants. Six acres both m land with ten greenhouses heated with steam, large packing room, 100 hotbed sashes, own water works, new broom house with cellar, stable, all implements, wagons horses, all in good order. Good trade good stock of plants; situated on main street on city limits between three car lines. Good reason for selling under liberal conditions. For particulars, address H. H. care American Florist, Chicago.

LOOK! LOOK!

Florists Look! Grand chance, don't miss it. 10 minutes' drive from Chestnut Hill, one of the best located 2 acres of land suitable for your purpose, 13-room cottage, stable for 3 horses, five wagons, cow stable, henry tool house, 50 fruit trees, grape vines, berries; sun exposure the entire day; high lying ground. All lately done in, painted, repaired; new heater for the entire building. Will exchange for property in the city of Philadelphia or sell. Address E. & G. A. FRUHL, 1645 N. Broad St., Philadelphia.

NEW CHRYSANTHEMUMS.

VAUGHAN'S "Florists Set" FOR 1891.

We have secured a set of **TEN** from representative American hybridizers. We have put the price within the reach of every florist who owns a hundred feet of glass. Let us have a Fall show in every city in '91. There is no advertising equal to it.

Read the names of those who have each contributed specimens worthy of their reputation and which we are willing to stand behind.

NAME.	GROWER.	COLOR.
BEACON,	FEWKES & SON,	WHITE.
CHAS. HENDERSON,	T. H. SPAULDING,	GOLD BINT.
CLARA JAMES,	W. K. HARRIS,	WHITE, PINK TINT.
MERMAID,	FRED DORNER,	PINK.
J. C. VAUGHAN,	JOHN THORPE,	CRIMSON.
MRS. A. ROGERS,	SIEBRECHT & WADLEY,	YELLOW.
LOUIS BOEHMER,	P. HENDERSON & CO.,	PINK.
FREMONT,	FEWKES & SON,	YELLOW.
TARGET,	ROBERT CRAIG,	CRIMSON, YELLOW CENTER.
WABAN,	FEWKES & SON,	PINK.

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PRES. HYDUM, fine early yellow. 5.00

GRANDIFLORUM, 'CULLINGFORTH'.

JARDIN DES PLANTES, fine market var. 5.00

WILLIAM W. EDGAR, Waverley, Mass.

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All varieties of Cut Flowers in their season.

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AMERICAN FLORIST CO.,

54 La Salle Street, CHICAGO.

EXHIBITION

CHRYSANTHEMUMS

The PRIZE Winners of 1890, in three sets.

Send for list.

M. A. HUNT,

TERRE HAUTE, IND.

A. BLANC,

ENGRAVER FOR FLORISTS. PHILADELPHIA, PA.



A. BLANC

Electro of this Cut, \$2.00. LARGEST STOCK OF ELECTROTYPES OF PLANTS AND FLOWERS FOR FLORISTS' CATALOGUES, ETC. Complete Catalogues 50c. deducted from first order. Agency for the sale of Electro of MESSRS. VIL-MORIN ANDRIEU & CO., (Paris.)

ROSES FOR IMMEDIATE PLANTING

Duchess of Albany.....	\$12 00
Mme. Hoste.....	7 00
La France.....	5 00
Gontiers.....	4 00
Perles.....	4 00
Niphotos.....	4 00
Mermets.....	4 00
Brides.....	4 00
Boa Silenes.....	4 00
Gen'l Jack, 2 in. 40c per 1000; 3 in. 80c per 100.	
H. Perpetual, 40 var. 2 in. 50c 00 per 1000.	

SEND FOR LIST

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.
Mention American Florist.

ROSES

FOR WINTER BLOOMING.
10,000 healthy Roses from 4-inch pots, containing 0
MERMETS, BRIDES, PERLES,
NIPHOTOS and BON SILENES,
at \$10.00 per 100.
Also 5,000 field-grown JACKS, 2 to 3 ft.
\$10.00 per 100.
DAISIES of the finest strain from seed-
bed \$3.00 per 1000.

JAMES HORAN, FLORIST,
BRIDGEPORT, CONN.

IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best results to the florist. Blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.
Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

A very large stock of young Roses of the leading breeding and forcing varieties. Also large stock of same in 5 and 6-inch pots.
The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.
Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

Rooted Cuttings of Carnations

of all the Standard Varieties ready Dec. 1st.
Having added another 100 foot house to our Carnation Department, hope to be able to furnish any quantity desired, on short notice.
Orders for future delivery at 10 per cent off from catalogue price.

JOS. RENARD, Unionville, Chester Co., Pa.

CARNATIONS.

New Seedling Carnation "Hector," brilliant scarlet, has no equal of its color, ready for delivery January 1, 1891. Catalogue ready December 30, 1890. Also plants from 3 1/2 inch and rooted cuttings of "Mrs. Fisher," the leading white.
Also many other varieties.

R. T. LOMBARD,
WAYLAND, MASS.

ENGLISH RHODODENDRONS

Every variety and color, £4 to £10 per hundred.

CLEMATIS.

The choicest and best kinds, 65s to 75s per hundred.

R. STREET, Nurseryman,
Heathside Nurseries, CAMBERLEY, ENGLAND.



**TRY DREER'S
GARDEN SEEDS**

Plants, Bulbs, and
Rabbitries. They are the
best at the lowest prices.
TRADE LIST mailed quarterly, mailed free to the
trade only.

HENRY A. DREER,
Philadelphia

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

SAN FRANCISCO, CAL.

ROOTED CUTTINGS.

— Send for List. The prices and quality are sure to please. —

CARNATIONS—All the leading sorts and novelties. Eight 100 foot houses.
COLEUS—Twenty-four varieties. A sample of each for 25 cents, free by mail.
GERANIUMS—A choice assortment in mixture, at \$10 00 per 1000.
ALTERNANTHERA, French and other CANNAS; also other items of interest.

CARNATION NOVELTIES.

About January 1st I will issue a complete list of Carnation Novelties for '91; it will be mailed to all my former customers, and to others on application. No one interested can afford to place their order before seeing it.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

Lizzie McGowan.

I beg to announce to the trade that I shall be prepared to distribute this magnificent **NEW WHITE CARNATION** on the 10th of February, 1891, and that the price will be \$12 per 100, and \$100 per 1000, for strong well rooted plants from the cutting bench. Favorable special rates will be allowed on large quantities. Cash or its equivalent should accompany orders from unknown correspondents.

Send for descriptive circular of this and other sorts. Parties wishing a few flowers of Lizzie McGowan can have them by enclosing twenty-five cents in stamps.

ADDRESS

H. E. CHITTY, PATERSON, N. J.

"Wm. F. Dreer,"

This magnificent **NEW CARNATION**, is a seedling of Buttercup, fertilized with Century. Is of exceedingly strong, healthy growth, upright and robust; retaining the style of flower of Buttercup; has a majority of long stems—often four full blown at one time on a single spike. Its color is a beautiful rose pink, deeply fringed petals, very large, often 3 inches in diameter, and does not burst. All who have seen it pronounce it the most perfect Carnation yet produced.

Strong rooted plants after Jan. 15th, at \$2 per doz.; \$15 per 100. Sample blooms of this and "GOLDEN GATE" will be mailed to any address on receipt of 25 cents.

CHAS. T. STARR, Avondale, Chester Co., Pa.

LIZZIE MCGOWAN.

I will be prepared to distribute my **NEW WHITE CARNATION** Feb. 10, 1891, and the price will be \$12 per 100, or \$100 per 1000, for Rooted Cuttings propagated from **STRICTLY HEALTHY PLANTS**. Special discount on large orders.

Cash or its equivalent should accompany orders from unknown correspondents. Send for descriptive circular. Parties wishing a few flowers of this **GRAND Carnation** can have them by enclosing twenty-five cents in stamps.

ADDRESS

JOHN MCGOWAN,

363 Main Street, ORANGE, N. J.

CARNATIONS.

Lizzie McGowan, Fred Creighton, Golden Gate, Fair Rosamond, J. R. Freeman

Hector, Mrs. Fischer, Wm. F. Dreer, Chastity, Silver Spray,

Tidal Wave, Grace Wilder, L. L. Lamborn.

50,000 now in cutting bench including these and 60 other leading vars. Send for price list, ready in 10 days.

GEO. HANCOCK, Grand Haven, Mich.

CARNATIONS.

Golden Gate, Fred Creighton, Mrs. Fischer, Tidal Wave, Daybreak (Simmons' new pink), Lizzie McGowan, Lamborn, Silver Spray, Orient, Freeman, Buttercup. Rooted cuttings or plants, at market rates. **J. C. Vaughan, Chicago.**

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.

No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted. Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

REFERENCE has several times been made to the prolific source of synonyms in the practice of different firms in importing the same chrysanthemums from Japan and each giving the varieties new names of their own. Certainly every precaution should be taken against such a duplication of names. And why should not the original Japanese names, or translations of them, be retained? We concede to European growers the right to name their new plants, and that we are bound to respect and retain those names, no matter how fanciful or absurd. Are not the Japanese gardeners entitled to the same consideration? And are not the Japanese names noted in a recent issue fully as euphonious as the wicked mouthfuls inflicted upon us by some European raisers? We certainly prefer such names as "Moon in the Window" and "A thousand sparks" to such as "Le Cte Foucher de Cariel" and "Triomphe de la rue des Chalets."

ON THE 8th inst. we received from florist Wm. Clowe, Corsicana, Texas, a box of roses cut from plants growing out of doors. The blooms presented every indication of having been of very good quality when shipped, though they were about ready to drop to pieces when received. Mr. Clowe writes that the roses were cut on the 3d inst. and that the first frost—only sufficient to injure coleus and the tops of cannas—occurred the night of same date. He adds that at the date noted (December 4), lantanas, abutilons and hibiscus were still uninjured, and that he had 50 varieties of roses in bloom in the open ground.

GREEN in bulk and holly are reported very scarce at time of going to press. Snow storms which checked the gathering of green in November is the main cause of shortage in that article, while increased demand evidently explains shortage of holly. As showing the condition of the market on green, one thousand pounds at 5 cents per pound was expressed from the west to New York City on the 12th.

J. G.—The adiantum of which you send specimen from is probably merely a seedling variation of *A. gracillimum*. Such variations are not uncommon, and the specimen sent does not show any marked characteristics to distinguish it from the type, though the habit of the plant may be somewhat different.

IN ORDER to give this paper your fullest support confine your orders for supplies to those who advertise in its columns, and in writing to advertisers please say that you saw their advertisement in the AMERICAN FLORIST.

THROUGH the columns of the New York Press we learn that Dr. John Thorpe is an authority on the chrysanthemum. We expect a contribution from the "Doctor" at an early date.

ARE THE greenhouse boys to borrow the WEEKLY FLORIST from the office nights or will it pay to give these workers a Christmas present of our 52 numbers for 1891 for their own.

T. T. R.—Bone coal is as its name indicates, bone coal or carbon. It is made by manufacturers of fertilizers and may be had from dealers. Most seedsmen keep it we believe.

THE CIRCULATION of the AMERICAN FLORIST covers every section of the North American continent, and finds every nook and corner where a florist has established a business.

News Notes.

CINCINNATI.—The Huntsman Floral Co. has removed to a new store at 37 and 39 West Fourth street.

DENVER, COL.—Mr. and Mrs. Avery Gallup lost their youngest son, Avery, by diphtheria December 2, after a sickness of only five and a half days.

PITTSBURG.—A movement is on foot to organize a Florists' Club for Pittsburgh and Allegheny. The first meeting will be held at Ludwig & Richter's store in Allegheny January 8.

ST. LOUIS.—A local daily gives a description of the plants to be seen in the conservatories of Mr. J. W. Kauffman, a wealthy amateur who resides on Lindell Boulevard, and states that his collection of orchids is worth \$6,000.

PITTSBURG.—Trade is fairly active with prospects of good holiday business. Flowers are not likely to be over plentiful. Lycopodium wreathing can be bought at about last year's prices, although costing in bulk 50 per cent more than in 1889.

UTICA, N. Y.—A special meeting of the Florists' Club was held on the 10th inst. Final report on financial returns from the recent exhibition showed a surplus of \$40, and the success of the exhibition was voted to be complete. The club voted to have a supper early next month. Mr. Peter Crowe was invited to read a paper on roses at the next meeting.

GERMANTOWN, PA.—At the regular monthly meeting of the Germantown Horticultural Society on the 11th inst., the committee on chrysanthemum show reported that the total receipts of the last exhibition were \$397.57 and expenses \$395.65. An election of officers for the ensuing year resulted as follows: President, Benjamin H. Shoemaker; Vice Presidents, Jonathan Jones, Charles J. Wister and John Silson; Secretary, Thos. E. Meehan; Treasurer, Joseph Meehan.

PATERSON, N. J., Dec. 8.—The month of October, or by far the larger part of it was made up of dark cold rainy weather with an occasional chilly fog, the chief business of the month was to generate and nurture mildew which has been exceedingly troublesome this fall. The coldest weather of the month was on the morning of the 31st, when the thermometer indicated 24° at 6:30 a. m., on the whole the month was dismal and the advent of November was a continuation of the same until the morning of the 6th,

when it was quite cold, thermometer falling as low as 24°, which was followed by much clearer weather and greatly improved conditions generally, and which prevailed with brief excursions throughout the month; on the 21st, 22nd and 23rd we had some very biting cold weather, although thermometer did not fall below 30° on any one of those days, but it gave us a fair warning to prepare for winter all the same; on the night of the 27th it became quite cold and next morning at 6:30 thermometer indicated 15°, which was the lowest point for the month. December came in cold and winter like, with thermometer at 10° on the mornings of the 2d and 3rd and has remained pretty much like winter ever since.

Syracuse, N. Y.

At the annual meeting of the Central New York Horticultural Society held in this city December 3 the following officers were elected: President, A. D. Perry; Vice-Presidents, Hon. J. J. Belden, Hon. D. P. Wood, H. S. White, E. P. Judson, W. Brown Smith, A. H. Davis, T. Bishop; Secretary, Henry Youell; Treasurer, Peter Kass; Executive Committee for three years, G. Ham, G. Bartholme.

It was decided to hold a spring show to occur about Easter, several special prizes were offered and a committee was appointed to solicit further special prizes for the fall as well as the spring show.

This society has been in existence only three years, but the result of its good work is already showing itself. The old established florists find their plant insufficient to the demand and three new florists have started.

The secretaries of kindred societies will confer a favor by sending copies of their prize lists, especially for spring shows, to H. Youell, 228 Beecher St., Syracuse, N. Y.

Early Days of the Trade in California.

We clip the following interesting note from the *Pacific Rural Press*:

EDITOR PRESS: In the fall of 1853 I bought land in Alameda and moved from San Francisco in January, 1854. I commenced to grow flowering and ornamental plants and soon had quite a stock for those days, but I found there was no sale for them in Alameda. I arranged with Wainwright & Randall on Merchant street to have an auction sale. The little steamer that was running from San Francisco to Alameda was blown up soon after my moving over. I got the plants ready and hauled them to a sloop, put them in the hold and went with them to San Francisco. I had them hauled to the salesroom and advertised them three days. They attracted a great deal of attention. One lady would say to her escort, "Buy this for me," and another "Buy that for me," and frequently selecting the same plant. On the morning of the sale there was a large crowd. Governor Wainwright was in his happiest mood, calling Cinerarias "Eranthis." The bidding was spirited. Everything went like hot cakes. Carnations brought from \$2.50 to \$5; one monthly tree carnation, six feet high, brought \$10; *Salvia splendens*, from \$2.50 to \$5; roses from \$2 to \$7; a cactus, grafted on the opuntia or prickly pear, \$30; a *Camellia Japonica*, \$30; cinerarias, from \$1.50 to \$2.50; chrysanthemums, \$2.50; a well-trained rose geranium \$34. The sale netted me a handsome sum. I had an auction sale every week for several weeks, with quite good results.

JAMES HUTCHISON.

Oakland.

"A Little Knowledge, Etc."

An amateur friend who has a small greenhouse dropped in on a Smithfield street florist yesterday to inquire what cape flowers were, and was shown a sample of the dried article so much used in making up immortal work for the holiday season. "Yes," he said, "they are the same thing; I was ordering some bulbs from a New York house and wrote that if the cape flowers they offered were sound they could send me a case, expecting of course, to get a choice lot of amaryllis and other African bulbs."

"Well, a day or two ago my gardener came to me with a puzzled look and said, 'Mr. —, I opened the big box but this is nothing we want,' exhibiting a handful of capes. Oh, said I, that is the stuff used for packing the bulbs in; go on and unpack the case, which the gardener continued to do until the case was empty, and about six barrels of cape flowers were piled up alongside. 'Only this and nothing more.'"

Hot Water Under Pressure.

In reply to "H," I would say that it is not claimed that pressure affects the circulation, although some writers have suggested that it might. As he suggests the pressure is the same in all directions and of course cannot affect the circulation.

You can heat water to a higher temperature without its boiling with pressure than you can without, and consequently you can get more radiated heat from your pipes, that is all there is to it. Open pressure is generally considered the best, the water supply being placed at sufficient height to give any desired pressure, no safety valve or gauge being needed. I believe that none of the modern, sectional cast iron boilers are adapted to the closed pressure system, they might leak at the joints, nor would it be advisable to put a very heavy open pressure on them without first ascertaining from the makers how much they will stand. With boilers made entirely of tubes it is different, they will stand any pressure that is likely to be used. L. WIGHT.

HOLLY. We are sold so short now on this stock that we must get it in by Express—our price will on Express Stock be advanced to \$7.50 per case after this date. Bouquet Green sold out—Dec. 16.

J. C. VAUGHAN, CHICAGO.

LaRoche & Stahl,
Florists & Commission Merchants

—OF—
CUT FLOWERS,
1237 Chestnut Street, PHILADELPHIA.
Consignments Solicited. Special attention to express shipping.
Mention AMERICAN FLORIST.

J. M. McCULLOUGH'S SONS,
Wholesale Commission Dealers in
CUT FLOWERS,
134 & 136 Walnut Street, CINCINNATI, O.
SPECIALTIES:
ROSES, CARNATIONS AND ORCHIDS.

CUT FLOWERS.
The choicest Cut Flowers, of our own growing, at lowest market rates, shipped C. O. D. Use A. F. Code when ordering by telegraph. Telephone connections. For prices, etc., address
J. L. DILON, BLOOMSBURG, PA.

Wholesale Markets.

Cut Flowers.

	BOSTON Dec. 15.
Roses, Bon Silene	\$1.50 @ \$2.00
" Gontiers	1.00 @ 3.00
" Mermets, Brides	2.00 @ 4.00
" Mermets, Brides	8.00 @ 10.00
" La France	5.00 @ 12.00
" Wootton	5.00 @ 10.00
" Am. Beauty	25.00 @ 40.00
Carnations, Waterville	1.00 @ 2.50
Valley	1.00 @ 1.50
Callas	1.00 @ 1.50
Callas	1.00 @ 1.50
Callas	1.00 @ 1.50
Bouvardia, single	1.00 @ 1.50
Serva. bellorosa	1.00 @ 1.50
Roman hyacinths	1.00 @ 1.50
Narcissus white	1.00 @ 1.50
Asparagus plumosus	50.00 @ 1.50
Smilax	1.00 @ 1.50
Adiantum	1.00 @ 1.50
	PHILADELPHIA, Dec. 15.
Roses, Beauties	1.00 @ 1.50
" Laings	25.00 @ 35.00
" Albani, La France	5.00 @ 8.00
" Mermets, Brides, Hostes	5.00 @ 8.00
" Cassini, Watervilles	5.00 @ 8.00
" Wootton, Bennetts	5.00 @ 8.00
" Perles, Niphetos, Gontier	5.00 @ 8.00
Valley	1.00 @ 1.50
Carnations, long	1.25 @ 1.50
Carnations, short	1.25 @ 1.50
Smilax	1.00 @ 1.50
Violets, double	1.00 @ 1.50
Bouvardia	1.00 @ 1.50
Roman	1.00 @ 1.50
Nigroette	2.00 @ 3.00
Asparagus plumosus	50.00 @ 100.00

	NEW YORK Dec. 15.
Roses, Bon Silene	\$1.00 @ \$1.00
" Gontiers, Niphetos	2.00 @ 4.00
" Perles	2.00 @ 4.00
" Souva	2.00 @ 4.00
" Mermets, Brides	4.00 @ 8.00
" La France, Albany	8.00 @ 12.00
" Watervilles, Cassini	5.00 @ 8.00
" Bennetts	5.00 @ 8.00
" Beauties	5.00 @ 8.00
" Asparagus plumosus	50.00 @ 100.00
Valley	1.00 @ 1.50
Carnations, long	1.00 @ 1.50
Longiflorum lilies	6.00 @ 8.00
Valley	1.25 @ 1.50
Violets	1.25 @ 1.50
Adiantum	1.00 @ 1.50
Bouvardia	1.00 @ 1.50
Roman hyacinths, narcissus	2.00 @ 3.00
Nigroette	4.00 @ 6.00

	CHICAGO Dec. 17.
Roses, Perles, Niphetos	\$5.00 @ \$8.00
" Gontiers	5.00 @ 6.00
" Bon Silene	5.00 @ 6.00
" Mermets, La France, Brides	8.00 @ 12.00
" Bennetts	8.00 @ 10.00
" Am. Beauty	25.00 @ 40.00
Carnations, short	1.25 @ 1.50
Carnations, long	1.00 @ 1.50
Carnations, long, fancy	3.00 @ 4.00
Smilax	1.00 @ 1.50
Adiantum	1.00 @ 1.50
Violets	1.25 @ 2.00
Bouvardia	1.00 @ 1.50
Roman hyacinths	4.00 @ 5.00
Valley	1.00 @ 1.50
Callas	1.00 @ 1.50
Poinsettias	1.00 @ 1.50
Narcissus	4.00 @ 5.00

WM. J. STEWART,
Cut Flowers & Florists' Supplies
—WHOLESALE—

A large stock of ROSES, LILY of the VALLEY, VIOLETS, CARNATIONS, ASPARAGUS, HYACINTHS and other standard flowers for the

HOLIDAYS.
HOLLY and MISTLETOE, of best quality, by the case or in large quantities at low prices.

CALDWELL'S LONG NEEDLE PINES, PALM LEAVES, MAGNOLIA BRANCHES, ETC., Constantly on hand.

WM. J. STEWART,
67 Bromfield St., BOSTON, MASS.

ELLISON & KUERN,
—WHOLESALE—
FLORISTS,
1122 PINE STREET,
ST. LOUIS, MO.

THOS. YOUNG, JR.,
WHOLESALE FLORIST
20 West 24th Street,
NEW YORK.

LILY OF THE VALLEY,
And the Choicest ROSES for the fall and winter season.

W. S. ALLEN,
WHOLESALE DEALER in CUT FLOWERS,
36 EAST 23rd STREET, NEW YORK.
ESTABLISHED 1877.

Price List sent upon application.
W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
No. 32 W. 30TH ST., NEW YORK.
Orders to be shipped will receive prompt attention.

JOHN YOUNG,
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56 WEST 30TH STREET,
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A. S. Burns. J. I. Raynor.
BURNS & RAYNOR,
WHOLESALE FLORISTS,
11 West 28th St.,
NEW YORK.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
WHOLESALE FLORISTS,
27 Washington Street, CHICAGO.
All Cut Flowers in season. Orders promptly shipped.
Store open until 9 P. M. Sundays until 2 P. M.
ALL SUPPLIES. —WIRE WORK A SPECIALTY.

O. W. Frese,
WHOLESALE FLORIST
66 Wabash Ave., CHICAGO.

Consignments Solicited.
STORE OPEN NIGHTS AND SUNDAYS.
HAMMOND & HUNTER,
WHOLESALE DEALERS IN
CUT FLOWERS,
51 West 30th St., NEW YORK.

HOLLY.
Send in your Order now.
THE WISCONSIN FLOWER EXCHANGE,
133 Mason Street, MILWAUKEE, WIS.

The Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president. JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1895.

MR. CHAS. N. PAGE, of the Iowa Seed Co., has established *The Western Garden and Poultry Journal*.

PRICE & REED, of Albany, suffered a loss of several thousand dollars from fire and water December 7. We have not learned if any new catalogue matter was destroyed. Insured for \$15,000.

A. D. PERRY, the genial head of the firm of A. D. Perry & Co., Syracuse, N. Y., was unanimously elected president of the Central New York Hort. Society, December 3. He has richly earned the honor conferred, having spared neither time nor money to make the society a success.

A CURIOUS ACTION ABOUT SEED POTATOES has just been heard at Macchesfield County Court. A farmer bought a quantity of seed, which he understood to be Scotch Regents; but he alleged that when he came to dig the crop he found it to consist of mixed sorts, of very inferior quality to Regents, and much less salable. He therefore sued the person from whom he bought the seed for the estimated amount of his loss. Experts were produced on both sides, and while one set swore the potatoes were Scotch Regents, the other set swore they were not. As one of the solicitors remarked, there was as much difference of opinion as if it were a horse or a cow case. In the end, Judge Hughes took the experts outside the court, where a load of the potatoes was on view, and asked them to pick out any of the potatoes which were not Regents; and after diligent search they could only find about half a dozen. This decided the matter, and judgment was given for the seed merchant.—*Gardening World*, Nov. 29.

G. J. MOFFATT,
Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.
Samples and Prices on Application.
Mention American Florist.

VERBENAS.
20 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$25
Rooted Cuttings of same, 100 \$1; 1000 \$9.
Fine stock Heliotrope, 2½ in. \$3 per 100, Double Fringed Petunias, 12 vars. 2½ in. \$1.00 per 100.
Adiantums Cuneatum, Decorum and Gracillimum, 5-inch, strong, \$15 per 100.
Primroses, double, per 100 \$12.00.
" single, per 100 \$8.00.
Oobonica, per 100 \$6.00.
Geraniums—latest Novelties.
Latania borbonica, 5 in. \$4.00, 4-in. \$3.00 per dozen.
Miscellaneous stock of all kinds.

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.

IMPROVED GIANT VERBENAS.
This grand strain of the Mammoth type is absolutely the finest yet produced. I have obtained it by five years of high culture and careful selection. By recent comparison it well merits all its praise. The flowers are over an inch in diameter, borne in profusion in immense umbels. The finest colors. Every florist should sow it. Per trade pkt. 3 cts.; 5 pkts. 10 cts. 5 pkts. \$1.00.
JOHN F. RUFF, Shiremanstown, Pa.

ABUTILON ERECTA.



Something **NEW** and different from all other Abutilons.

FLOWERS STAND UP ERECT;
color orange pink; strong grower, profuse bloomer.

Those desiring to catalogue this attractive Novelty should secure stock at once.

2-inch pot plants.....\$1.50 per doz.
4-inch " 3.00 per doz.

ELECTROS FOR SALE. Per 100
CARNATIONS, 2-inch.....\$3.00 to \$4.00
CYCLAMENS, 2-inch..... 5 00
PRIMULA OBSCURA, 2-inch..... 3 00

I. N. KRAMER & SON,
MARION, IOWA.
Send for Trade List.

DREER'S DOUBLE PETUNIAS

Now Ready for Delivery, our Select Strain of Double Petunias, in good, strong, healthy stock plants, in 3-inch pots.

The strain of Petunias we offer is too well known to require much description—suffice it to say that the varieties offered this season are fully equal to our former introductions. The advantage of securing stock early in the season will be readily appreciated, as a limited number of plants will produce a large number of cuttings.

We offer 15 named varieties, at \$1.50 per dozen; set of 15, for \$1.75; \$10.00 per hundred.

Seeds of Double Petunia, from the finest fringed and blotched varieties, saved on our own grounds, crop 1895. Per trade pkt. of 700 seeds, \$1.

Our New Trade List, offering all the good things of the season, will be ready in January.

HENRY A. DREER, Philadelphia, Pa.

50,000 READY NOW. 50 VARIETIES.
Strong plants, 2½-inch pots.....\$1.50 per 100; \$23.00 per 1000
Rooted Cuttings..... 1 00 8 00
Our Verbenas this year are the best we have ever grown.

No Rust or Mildew.
Packed light, and satisfaction guaranteed. Sample on receipt of 25 cts.

J. L. DILLON, BLOOMSBURG, PA.

VERBENAS, strong and healthy.
Ready for immediate shipping. Per 100 Per 1000
General Collection 2½-inch pots.....\$3.00 \$25.00
XX Mammoth Set 2½-inch pots..... 4 00 30 00
General Collection..... 1 00 8 00

ROSES.
Perles, Mermets, Brides & Sour d'un..... 2 00 65 00
Ami, strong plants, 3-in. pots..... 3 00 25 00
Hybrid Perpetuals, open ground..... 8 00 10 00
Hardy Climbers, open ground..... 8 00 10 00
Texas, from open ground..... 8 00 10 00
Ampelopsis Vetchii, strong plants..... 8 00 75 00
Beconias, Rex Types, 3 & 4 in. pots..... 1 25 10 00
Violeta M. Louise, rooted cuttings..... 1 25 10 00
Heliotrope in variety, rooted cuttings..... 1 25 10 00
Colums in variety, rooted cuttings..... 1 25 10 00

Verbenas Now Ready
ABSOLUTELY FREE FROM DISEASE. Per 100 Per 1000
Mammoth, strong 2½ in. pots.....\$4.00 \$35.00
General Collection, 2½ in. pots..... 3.00 25.00

Address **J. G. Burrow,**
FISHKILL, N. Y.

WOOD BROTHERS,
(Successors to J. C. WOOD & BRO.) FISHKILL, N. Y.
Mention American Florist.

5,000 Spirea Japonica, fine clumps, per 100, \$3.50.
2,000 Gen' Jacq. Rose plants, 4-in. pots, per 100, \$5.00.
Golden Broom, rooted cuttings, per 100, \$7.00.
—Golden Broom & Golden Vetchii, \$10.00.

JOHN RECK, Bridgeport, Conn.

HAIL Lock the door BEFORE the horse is stolen. Do it NOW!
JOHN G. ISLER, Sec'y F. H. A.
Saddle River, N. J.

THOMAS YOUNG, JR.,
=WHOLESALE FLORIST,=
20 West 24th Street,
NEW YORK.

**Sole Agent for the Following
well-known Growers:**

ERNST ASMUS,	-	West Hoboken, N. J.
W. H. DE FOREST,	-	Summit, N. J.
PETER HENDERSON & CO.,		Jersey City, N. J.
JOHN N. MAY,	-	Summit, N. J.
S. C. NASH,	-	Clifton, N. J.
JOHN REID,	-	Jersey City, "
A. C. TUCKER,	-	Nyack, N. Y.
WEIGAND BROTHERS,		West Hoboken, N. J.

And many others.

ALL THE CHOICEST VARIETIES OF
ROSES, CHRYSANTHEMUMS, ORCHIDS, LILAC,
LILY OF THE VALLEY, TULIPS, ETC., ETC.

— ORIGINAL AND LARGEST GROWERS OF —

LILIUM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

— BULBS NOW READY FOR DELIVERY. —

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 120 in length, of a crop of Liliium Harrisii in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fits in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and opens off perfectly and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his own use. We hear it said occasionally that Liliium Harrisii flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

— HALF A MILLION BULBS. —

Be sure you get the genuine Liliium Harrisii. In order to secure "the true variety" purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant L. Longiborn in Bermuda, planting it with Harrisii to increase their stock rapidly when Harrisii was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Ball Decorations.

On the occasion of a ball recently given in the club house at Tuxedo Park the decoration of the ball-room was entrusted to an expert, who, nevertheless, is not a florist—Miss Stearns, of the Associated Artists of 115 East Twenty-third Street. The result proved that something might be done in the way of floral decoration which would lack the conventionality that so often marks such arrangements without falling into the heterogeneity of amateur attempts. The room is very large and circular in shape, with fourteen windows which sustain the cornice. On one side is a stage where the musicians were to sit. This was decorated in harmony with the pretty woodland scene which formed the background, high palms flanking the sides, while a row of lower palms, mingled with chrysanthemums, bordered the stage, and trailing ivy fell over the front. Chrysanthemums were also intermixed with the taller palms, in three shades of pink, making a charming effect, as the electric light shone up over them from the footlights. This scheme was continued around the room by banking the window-recesses with Hemlock boughs and great sprays of white chrysanthemums, the dark green foliage being carried up into the coves of the domed ceiling. The columns were covered with autumn foliage, oak-leaves of a dark reddish bronze color forming the base, and being shaded gradually up into terra-cotta tones and finally into the yellow of maple foliage. On this background chrysanthemums were arranged, likewise in graded colors, beginning below with dark red blossoms and shading up to the capitals, which were encircled by masses of golden Grandiflorums. To obviate, however, an undue contrast between these red and yellow pillars and the pink and green of the stage, the two columns adjoining these were differently treated, being wound with hemlock foliage interspersed with white chrysanthemums—the same scheme of color chosen for the window recesses. The total effect of the beautiful room thus adorned was at once dignified and festive, and an essential consideration in such cases—it made an excellent background for the gay dresses which filled it.—*Garden and Forest.*

PLANT BED CLOTH.

CHEAP SUBSTITUTE FOR GLASS ON Hot-beds, Cold Frames, etc. Three grades, Light, Medium, Heavy.



Used by Florists, Gardeners, etc., invaluable for Tobacco Growers. Protects from frost. Promotes hardy vigorous growth and keeps beds warm. Will not shrink or mildew. For sale by the leading Dry Goods houses, Seedsmen, Florists, etc. Well known and extensively used. For circulars and samples, apply

NATIONAL WATERPROOF FIBRE CO.,
27 South Street, - - NEW YORK.
Agents Wanted.

For Sale TO CASH BUYER — CONTENTS OF — Three Greenhouses,

Et c., with Business as it stands,
on account of sickness.

WM. DIHM,
221 Union Ave., MT. VERNON, N. Y.

GREEN and HOLLY.

Wreathing and Holly Wreaths.

Valley Pips,

SELECTED STRAIN.

TUBEROSES, fine bulbs. Low prices
for choice stock.

W. W. Barnard & Co.,

Successors to HIRAM SIBLEY & CO., Chicago,
6 and 8 North Clark Street,
CHICAGO.

HOLIDAY ORDERS

—FOR—
FANCY BASKETS, POT HOLDERS,
PALM STANDS, POT COVERS,
IMMORTELS, DOVES,
MEMORIAL DESIGNS of Metal Foliage
and Porcelain Flowers, Etc., Etc.,
SHOULD BE SENT NOW TO INSURE
PROMPT DELIVERY.

Our Illustrated Catalogue giving full information
mailed free on the return of a postal note.

AUGUST RÖLKER & SONS,

136 West 24th Street,
NEW YORK, STATION E.

CHRISTMAS GREEN

HOLLY AND MISTLETOE,

Now is the Time to Order for Prompt Shipment.

Bright, Fresh Lycopodium or Bouquet
Green, Wound on Heavy Cord.

ROUND, Medium, the Standard grade, per
100 yards.....\$3.50
Special rates made on 1000 yard lots.
BOUQUET GREEN, in bulk, bbl., 25 lbs. 2.00
HOLLY, bright and well berried, bbl., 2.00
MISTLETOE, per pound.....1.50
HOLLY WREATHS, large size, per doz. 5.00
CHRISTMAS BELLS, made of bright
scarlet Cape Flowers. Each.....1.00
Per dozen.....10.00
DESIGNS of BOUQUET GREEN, such as
Crosses, Wreaths, Anchors, Stars
and Letters, per doz.....1.50

Send in your order at once and you will have goods
when you need them.

KEENAN'S SEED STORE,
6016 Wentworth Ave., CHICAGO.

NEW FLOWER SEEDS.

Begonia, Golden Feverfew; Tuberosus
Begonia, single white, pink, scarlet,
yellow and mixed; Verbena; Smilax;
Candytuft; Alyssum; Petunia; Asters; Margaret Carnations; Cobaea, etc. Other seeds
constantly coming in.

J. C. VAUGHAN, BOX 688, CHICAGO.



Diagram Showing
how perfect drainage
and ventilation
is secured.



The only pot with Patent Perfect
Drainage and Ventilated Bottom.

These pots are all Standard sizes
and shapes, the same that carried
out of Boston the ONLY

First-Class Certificate of Merit,
and are HIGHLY COMMENDED by the
New Jersey Horticultural Society at their
Chrysanthemum Exhibition, at Orange, N. J.,
November 4th, 1896.

It will be to your advantage to send
for prices before purchasing elsewhere.
Parties who have used this pot say that hereafter they will use no other.

Patented and Manufactured only by
THE WHILLDIN POTTERY CO., 713 & 715
Wharton Street, Philadelphia, Pa.

Agent for the New England States, M. J. McCARTHY, 27 Otis St., Somerville, Mass.

J. A. Le Veer,

18 Burling Slip, NEW YORK.

HOLIDAY OFFER

Without Engagement.

CHRISTMAS GREENS.

Holly, dark green, with plenty berries, prime quality,
per barrel \$2; per crate of 30 cubic feet \$5.50; 5 case
per 10 case lot \$10.00. In curves, 10 to 15 feet long.
Mistletoe, well berried, per bbl. \$5; per lb. 50c.

DECORATIVE PLANTS, LEAVES, &c.

Abies Nordmanniana, hardy evergreen, fine bushy plant with strong points in curves, 10 to 20 inches high, perfect shape, one of the best for
decorating, each \$1; per 100 \$10.00.

Ruscus (Box), on Standard, 3 feet high, with hand-
some, perfect crowns, 1 to 1 1/2 ft. diam., \$2.50 each.
Laurustinus, rotundifolia and Colchica,
fine bushes from 10 inch pots, about 3 feet high,
very ornamental, \$1 each; \$10 per doz.

Long Needle Pines, (Pinus Australis), without roots,
very effective and lasting, extra size 4 to 5
feet long, per dozen \$5; medium size 2 to 3 feet
long, per dozen \$3.50.

Cabbages (Palm Leaves), 5 to 7 ft. long, fan shape,
very handsome, selected, per 100 \$30; per doz. \$3.
Palms (Palm Leaves), 14 to 2 feet long,
selected, per 100 \$3; per doz. \$3.

Wild Smilax, in strings, 8 to 15 feet long, per bbl.
\$1; per 100 \$10.00.

Florida or Spanish Moss, natural, per barrel
or 100 lbs. \$10.00.

Sphagnum Moss, dry, per barrel \$1.50.
Moss, dried dark green, per bundle 10c.; per dozen
bundles \$1.00.

Cape Flowers, short stemmed, pure white, finest
quality, per lb. 25c; per 10 lbs. \$2.50. Short stemmed,
pure white, good quality, per lb. 50c; in 10 case lot
per 100 \$10.00. In curves, 10 to 15 feet long,
white, extra quality, per 100 \$30; per 1000 \$275.
Long stemmed, dried, mixed colors, per lb. \$1.25;
per 10 lbs. \$12.50.

Erianthus, natural, resembles Pampas Grass, per
lb. 50c; per 10 lbs. \$5.00. In assorted colors, per
lb. 50c; per 10 lbs. \$5.00.

Fairy Flowers (Milkweed Balls), extra quality,
white, per 100 \$1.25; per 1000 \$10.00. Assorted colors,
per 100 \$1.25; per 1000 \$10.00.

Immortelles (French) prime quality, yellow,
natural, per dozen bunches \$2.75; each 25c. Purple,
white, cardinal, cherry red, crimson, dark blue,
pink, black, etc., per 100 bunches \$30; per dozen
bunches \$4.00; each 35c.

Letting (Chenille), in purple, red or white, etc.,
per 12 yards \$3c.; per 144 yards \$3.
Immortelles (French) prime quality, yellow,
natural, per dozen bunches \$2.75; each 25c. Purple,
white, cardinal, cherry red, crimson, dark blue,
pink, black, etc., per 100 bunches \$30; per dozen
bunches \$4.00; each 35c.

Pampas Plumes, natural, finest quality and
best, per 100 \$1.25; per 1000 \$10.00. Assorted colors,
per 100 \$1.25; per 1000 \$10.00.

Extra size, 30 to 36 inches long, \$12.00 \$1.75
per 100; per 1000 \$17.50.
Second size, 20 to 26 inches long, \$5.00 \$1.00
per 100; per 1000 \$10.00.

Dried, assorted colors, list size only, \$1.00 \$1.75
per 100; per 1000 \$17.50.

Sea Oats, dried in various colors, \$5.00 \$1.50
per 100; per 1000 \$15.00.

Silver Ferns, dried in various colors, \$5.00 \$1.50
per 100; per 1000 \$15.00.

Dried, in various colors, \$5.00 \$1.50
per 100; per 1000 \$15.00.

Slips, per bunch, \$5.00 \$1.50
per 100; per 1000 \$15.00.

Dried, in various colors, \$5.00 \$1.50
per 100; per 1000 \$15.00.

Dried, in various colors, \$5.00 \$1.50
per 100; per 1000 \$15.00.

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per 100; per 1000 \$15.00.

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per 100; per 1000 \$15.00.

Dried, in various colors, \$5.00 \$1.50
per 100; per 1000 \$15.00.



ANOTHER OPEN LETTER.

TIMES BUILDING, NEW YORK,
December 6, 1890.

TO FLORISTS:—

Through an error in writing our ad. of Dec. 4 we quoted the Window Gardening pamphlets at \$2.00 per 100. The lowest price we can furnish them at is \$3.00 per 100, and we guess you will say that that is a mighty low price. This includes the printing of your card on the back in red ink.

If any florist who wants it has not received the December (Christmas number) of *The American Garden*, by the time you read this, please drop us a card and a duplicate will be sent at once, gratis. Regular price 20 cts.

Don't forget our offer of last week on subscriptions. It will hold good through this subscription season.

Yours truly,

THE RURAL PUBLISHING CO.

THE AMERICAN GARDEN in club with AMERICAN FLORIST for \$2.50.

THE EVANS CHALLENGE
VENTILATING APPARATUS.

WITHOUT A RIVAL EITHER IN
COST, SPEED IN OPERATING OR
SECURITY IN CASE OF STORMS.



— MANUFACTURED BY —
QUAKER CITY MACHINE CO.,
1108 and 1110 North E Street,
RICHMOND, IND.

WHEN WRITING FOR ESTIMATES, PLEASE GIVE
FOLLOWING DIMENSIONS:

- 1st. Give the number of sashes to be lifted.
- 2nd. Give the length and depth of sashes, (depth is down the roof.)
- 3rd. Give the length of house.
- 4th. Give the height from the ground to the comb of roof.
- 5th. Give the thickness and width of rafters or sash bar.



Ventilator Machinery

FOR ALL CLASSES OF GREENHOUSES
EITHER FOR TOP OR SIDES.

Awarded the on'y Certificate of Merit
at Buffalo Convention.

Patented Dec. 10, 1889.

Write for Catalogue before order-
ing elsewhere.

E. HIPPARD,
YOUNGSTOWN, O.

FLORAL DESIGNS.

The help for Cut Flower workers.
162 pages, colored plates. Edition
nearly exhausted; speak quick.
Address (with \$3.50 for the book)

J. HORACE McFARLAND,
Box 655, HARRISBURG, PA.

MUSHROOM
SPAWN

GENUINE MILLTRACK

10 lbs. \$2.25 50 lbs. \$10.00

\$1.20 \$2.25 \$4.00 \$8.00

JOHN GARDNER & CO.

PHILADELPHIA, PA.

WE STILL LEAD, OTHERS TRY TO FOLLOW



To whom was awarded the **Only First-Class Certificate of Merit** for "Standard" Flower Pots, at the Sixth Annual Convention of the Society of American Florists, held at Boston, Mass., August 22d, 1890? We were. Why? Because we manufactured and exhibited the **only true "Standard"** Flower Pots, and of which we claim to be the **only** manufacturers at the present time.

FOR REDUCED PRICE LIST, ADDRESS

THE WHILLDIN POTTERY COMPANY,

713 & 715 Wharton St., PHILADELPHIA, PA.

AGENT FOR NEW ENGLAND STATES:

M. J. McCARTHY, 27 & 29 Otis Street, Somerville, Mass.

BIG OFFER!

CALDWELL, THE WOODSMAN.

SOUTHERN EVERGREENS

Consisting of Wild Smilax, Palm Leaves and Crowns, Long Needle Fines, Magnolia Foliage, etc. Were used in the decoration of the Chrysanthemum Shows at Indianapolis, Ind., Evansville, Ind., and by Harry Chaapel at Williamsport, Pa. How pretty and useful they were—see AMERICAN FLORIST of 4th Dec.

SPECIAL OFFER.

I offer to introduce my goods to all Florists, the following 16 cubic foot Sample Case, containing 1 barrel Wild Smilax; 1 barrel Magnolia Foliage; 6 lbs. of Grey Moss, 12 Long Needle Fines 2 to 3 feet, 50 Chamaecyparis Palm Leaves, 4 Palm Crowns, 3 lbs. Mistletoe; 1000 Dagger Ferns. Express charges prepaid, \$12.00; or \$6.00 per case and you pay express charges. Cash must accompany order.

CALDWELL, THE WOODSMAN,

Evergreen, Alabama.

The Southern Express Co. have given me }
very low rates to all points.



ESTABLISHED, 1866.

Floral Wire Designs
Manufactured by
N. STEFFENS,

335 East 71st Street, NEW YORK

Laurel Festooning.

WREATHS, TREES, FERNERIES,
Etc., Etc., for the HOLIDAYS.

HARTFORD & NICHOLS,

Wholesale and Retail Dealers in
Moss, Bouquet Green, Cut Ferns, and Festooning of all kinds,
18 Chapman Place, BOSTON, MASS.

**For Wild Smilax,
PALMS AND PALMETTOS.
FOR DECORATIONS**

Write to
A. C. OELSCHIG,
SAVANNAH, GA.

Foreign Notes.

SOME remarkably well grown specimen chrysanthemum plants were shown at the recent exhibition at Antwerp.

CHRYSANTHEMUM Mrs. Alphens Hardy seems to have been a very unsatisfactory grower, both in England and on the Continent.

M. GOSHIDA, secretary of the Horticultural Society of Tokio, Japan, visited the exhibition of chrysanthemums at Ghent, Belgium, last month.

AT A MEETING of the English National Chrysanthemum Society held November 24, suitable resolutions were passed on the death of the late Shirley Hibberd.

AT A RECENT meeting of the National Chrysanthemum Society of England first class certificates were given to each of the following chrysanthemums: Sunset, Beauty of Castlehill, Countess of Lytton, Princess Waldemar, Beauty of Castlewood, Violet Rose, Mrs. E. W. Clarke, A. C. Kingston, Danse.

AN ENGLISH amateur has a double-white flowered camellia which is 18 feet high from the soil and 54 feet in circumference. The base of the stem close to the ground measures 27 inches in circumference. Recently 7,000 bloom buds were picked off to allow the remaining 5,000 buds to develop better.

AT THE recent meeting of the International Agricultural and Forest Congress at Vienna a resolution was adopted recommending the establishment of government stations where observations and trials in combating plant diseases shall be made on a common plan, the directors of these pathological stations in different countries to meet annually to discuss and pass such resolutions as shall be deemed necessary, looking to the prevention and staying of epidemics of plant diseases in the future.

SPECIAL OFFER TO THE TRADE.

	Per 100	Per 1000
ANEMONE Pulsatilla.....	2 40	230 00
DICAMNUS Fraxinella.....	4 80	36 00
IRIS Germanica in dot the best V&P.	2 40	23 00
Kempferi in 10 ".....	4 00	36 00
" Ponia in 3 ".....	2 40	20 00
SPIREA ASTILBOIDES.....	32 00	20 00
" palmata.....	2 40	20 00
" alba.....	12 00	95 00

Wholesale trade list of Conifere, Rhododendrons, Fruit Trees, Hardy Perennials, Rockplants, Ericas, Ferns, Aquatics, etc., free on application.

A. M. C. JONGKINDT CONINCK,

Royal Tottenham Nurseries,

DEDEMSVAART, NETHERLANDS.

JUST RECEIVED

Per Steamships Ohio, Lero, Deroma, Switzerland, Anger and Freisland, a fine assortment of

IMMORTELES, **METAL WREATHS,**
GRASSES, **CROSSES,**
MAKART BOUQUETS, **ANCHORS,**
ARTIFICIAL FLOWERS, **STARS,**
DRIED FLOWERS, **WHEAT SHEAVES**
MOSS. a Specialty.

We also have on hand a fine lot of Doves, Pampas Plumes, Bouquet Papers, Tin Foil, and the finest selection of Baskets ever offered to the florist trade, a trial will convince you of this fact.

Soliciting your kind orders,

H. BAYERSDORFER & CO.,

56 North 4th Street,

PHILADELPHIA, PA.

P. S.—General Dealers, Importers and Manufacturers of
FLORISTS' SUPPLIES.

ORDER EARLY.

Mention American Florist.



Pat. 1882, '85, '86, '88, '90. **FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,**

And for any and every purpose for which a hose can be applied. Sizes, 1/2 inch to 42 inches diameter. The making, vending, or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address: **WATERBURY RUBBER CO.,** Sole Mfg and Owners of all the **Sphincter Grip Armored Hose Patents, 49 Warren Street, New York.**

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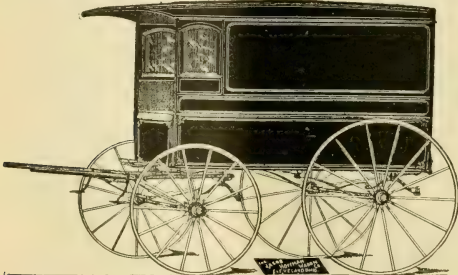
That is White and will stick on Greenhouses.
 That is Rust Proof for Iron Pipes and retards no heat.

Mention American Florist.

ADDRESS **HAMMOND'S**
 Paint & Slug Shot Works,
 FISHKILL-ON-HUDSON, N. Y.

We make the Best Delivery Wagons in the World.

THE NEW HOFFMAN FLORIST DELIVERY WAGON.



Specially designed for Florists' delivery purposes.

Write for Descriptive Circulars and Prices to

THE JACOB HOFFMAN WAGON CO.,

Office, 41 Michigan Street,

Cleveland, O.

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Payment for Glazing.

In reply to the request for opinions on the matter presented under above heading in the issue of December 4, would express mine as follows: The best way is to measure the house, calculate the number of feet of glass and agree upon a definite price for the job. But in the case your subscriber presented he should pay for laying the full 47 boxes of glass. He paid the dealer for 47 boxes of glass and was to pay the glazier 60 cents a box for laying it. It seems quite probable that neither party expected that more than 44 boxes would be required, or that there would be 3 boxes of broken glass, but if the glazier is small enough to demand the extra \$1.50 your subscriber had better put a good face on it and charge the amount to experience.

C. B. W.

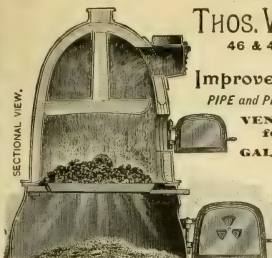
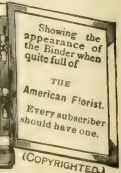


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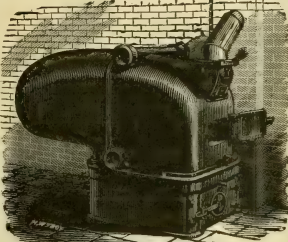
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THE AMERICAN FLORIST



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Vol. VI.

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No. 134.

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Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; W. J. STEWART, St. Paul, Minn., secretary; M. A. BENT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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A HAPPY NEW YEAR to every reader.

MANY SUBSCRIPTIONS expire this month. Please oblige by renewing promptly, thus lessening the clerical work at this office.

IT IS DOUBTFUL if a more acceptable holiday present could be decided upon for your employees or friends in the trade than a year's subscription to the AMERICAN FLORIST. The fifty-two issues for 1891 can be had for one dollar.

FOLLOWING the article on color, of which we print the first installment in this issue, we shall publish some general directions regarding proper and improper combinations of color in the arrangement of flowers and foliage, from the pen of a well known Boston artist.

Color.

BY H. H. BATTLES.

Some time since the editor of the AM. FLORIST impressed upon my mind the importance of a correct nomenclature of color with a view to its practical application in correctly naming and properly classifying the enormous variety of flowers now grown, and too, to assist the dealer in cut flowers to appropriately group complementary colors in his designs.

The importance of the subject is becoming daily more evident. The hybridizing of species has now become almost an exact science; brains and experience are interested in the means, and science and wealth in the results.

The use of cut flowers in decoration is now practically universal, and with the expenditure of hundreds and thousands of dollars purchasers have a right to demand that refined and æsthetic taste be as well satisfied with beautiful harmonies as they have that the epicurean sense should be gratified with dainty dishes.

With this end in view, and further to attempt to bring some order out of the chaos now existing, this article has been prepared. Whatever merit there may be in it is due to my masters, M. E. Chevreul, Director of the Dye Works of Gobelin; A. F. Church, Professor of Chemistry in the Royal Academy of Arts, London; Robert Ridgway, of the United States National Museum, and John Ruskin, to whom more than to any other do I owe the pleasure I derive from the careful observation of colors, and who has taught me too, that forms and ideas of beauty may be discovered in the most commonplace objects.

Frequent quotations of sense at last, if not of words are made from their works, and if they be not always credited no one will mistake the thought of the teacher nor the words of the pupil.

Endeavoring to improve the nomenclature of color as applied to our business I deem it necessary to look carefully into the present system; fully realizing this, I have taken the catalogues of three reputable firms and analyzed the terms used. In each case I have made use of about one thousand of such terms which gives us a full and impartial idea of the present method of describing the color of flowers.

In my researches I have tried to keep my mind wholly on the subject of color, but at times my eyes would lead my mind to the description of plants, and I have been truly lost in a sea of words, so much so that I was tempted to learn what wiser men had said of words, and found that Addison has said: "Words when well chosen have so great a force in them that a description often gives us a more lively idea than the sight of things themselves."

Dr. S. Johnson has said that, "Lan-

guage is only the instrument of science, and words are but the signs of ideas." I wish, however, that the instrument might be less likely to decay and that signs might be permanent, like the things which they denote.

Another says: "Multitudes of words are neither an argument of clear ideas in the writer nor a proper means of conveying clear notions to the reader."

Another says: "He that uses many words for the explaining of any subject doth like the cuttle fish, hide himself for the most part in his own ink."

And lastly: "He who has a superlative for everything wants a measure for the great and small."

If the compilers of catalogues would be advised by some of these old sayings they would express more clearly their description of plants and flowers.

Many assert that it is necessary to use the great number of terms to express the thousands of shades and tints of flowers. This is absolutely incorrect—discard three fourths of them and our descriptions will be much clearer.

With a full realization of the difficulties that will arise in attempting these descriptions, we are convinced that the present method can be greatly improved, always bearing in mind that the simplest way is by far the best. Use as few words as possible and see that every word has a meaning. It is necessary to have a clear idea of the most important colors, such as crimson, scarlet, orange, yellow, blue, purple, etc. Also the effect produced by combining any two, or the addition of black and white to any of them.

Then instead of multiplying words by describing a flower as being a most intensely brilliant glowing fiery flaming red, a much clearer impression will be made on the intelligent readers by calling it an orange scarlet, or possibly a scarlet.

By a glance at the list of terms used to express the different tones of white, we find that out of one hundred and thirty-eight attempts thirty-six terms are used.

It would take a mind more acute than the average to distinguish the difference between the following terms, all of which are found in the list: white, pure white, clear white, pure snow white, beautiful white, snow white, chaste pure white, lovely white, snowy white.

It would be much better to call a flower white when we can distinguish no trace of color in its composition. When we can detect a color let us use that color as the adjective, for instance, a list like the following would answer all practicable purposes, white, bluish white, pinkish white, yellowish white (or cream white), grayish white, greenish white, lavender white, brilliant white.

It may be admitted that the authors wished to express different shades of red when they used the terms crimson, carmine, scarlet, vermilion, red and rose.

These six terms which are capable of expressing so much in themselves are mentioned 1,307 times and by the use of hundreds of adjectives are distorted into four hundred and thirty-six terms; even then this list does not include brown, maroon, flesh, pink, magenta, cherry, amaranth, claret, chocolate, ruby, bluish, coral, terra cotta and mahogany, of which there are several hundred more.

Crimson is mentioned three hundred and seventy-two times while carmine but one hundred and thirty-nine. Both of these colors are made from cochineal, the latter being the purest and most refined, but when we examine the pigments that are prepared by the best manufacturers it is not easy to distinguish the difference in tone. Crimson is a little darker while carmine is a little more brilliant. Artists who are working with colors constantly have no trouble in discriminating between the two, not only in tone, but in their peculiar qualities when combined with other pigments.

Vermillion we find is seldom mentioned outside of the circle of artists, with them it is a most valuable color. In our list we find it mentioned but fourteen times, with such terms as bright, brilliant, dazzling, etc. Any of these terms would indicate that the authors intended to describe some tone of scarlet. Would it not simplify matters very much for us to discard vermillion for the present and let the different shades of scarlet express our idea of that color? (To our mind vermillion is a dull scarlet.)

Blush has been mentioned thirty times, among these the authors can distinguish thirteen varieties, they tell us of the pale and faint, the light and deep, the delicate and silvery; we should like to think of them all as being pleasing, but they describe only one as being such. They also tell us of the salmon blush. Would it not be better to describe the kind of pink that is meant, whether it is a yellowish pink, purplish pink, etc., or a light pink, when no other color can be distinguished in its composition?

Purple has been used one hundred and forty-six times with thirty-eight varieties; violet, sixty-two with fourteen varieties; lavender sixteen times with three varieties, and mauve six times with four varieties, all of which are different shades of purple.

Now, if we can determine upon a true purple, violet, lavender and lilac, and to each of these shades add the terms light, dark and brilliant we shall have sixteen well defined names to express our ideas. If in describing a flower we determine that there is a little more red or blue in purple than is necessary to make a pure purple, lilac or lavender, let us describe it as being so, as reddish purple, bluish purple, etc., this will give us several more expressive terms.

Yellow is a color frequently found in flowers. In our list the term is used four hundred and forty-one times with ninety-six varieties. We should recommend the following terms to express the different tones of yellow: dark yellow, yellow, light yellow, very light yellow and yellowish white, dark sulphur yellow, sulphur and light sulphur, dark buff, buff and light buff.

The list of terms used to describe the different tones of black should have our careful attention. There are few who will endorse them as being wise terms to use in describing flowers. It may not be necessary or advisable to devote much space to green, but in attempting to describe green do as it is advisable with all colors, mention the color that is prom-

inent in its composition, for instance, bluish green, light yellowish green, dark yellowish green, etc. We can not understand why the term grass green is given to several different shades of emerald green as known in the artists' pigments. This, however, is frequently done. The lustrous side of the grass is done. The before us matches perfectly the sample of olive green that we offer.

Possibly it would be well to establish a list of standard greens chosen from well known plants; this would be a comparatively easy and a very satisfactory manner, as the foliage does not undergo the many changes that we see in flowers.

It will prove interesting to examine the list of "Assorted colors." Notice the extravagant use of superlatives which might be easily corrected if there be any desire to do so.

It would hardly seem wise to describe a flower as containing "Tints seen in summer sunset," and another "As if wrapped in a cloud of mist," another as the "Most intense dark rich velvety crimson imaginable," these are but three of the many absurd ones that can be found.

The word "transparent" is frequently used; flowers are never transparent, but generally translucent.

The fact that three of the best known firms in the country generally differ in the terms used to describe well known flowers is ample proof that some method should supplant the haphazard course now followed. How utterly they fail in these attempts may be seen by comparing their description of some of the most popular roses.

By one firm the Anna De Diesbach is described as being a "Clear bright carmine" by another "Brilliant crimson sometimes shaded with bright maroon" and by a third as "Dark rich pink also clear bright carmine rose."

Baroness Rothschild, "Silvery white tinted pale blush," by another a "Rich and lovely shade of pale pink," and by a third "Satiny pink."

General Jacqueminot, "Brilliant scarlet crimson," by another "Rich velvety scarlet changing to brilliant crimson," and by a third, "Rich crimson color."

La France, "Splendid satin rose and silvery rose," by another "Lovely shade of peach blossom changing to amber rose tinged crimson," and by a third "Peach blossom pink."

Mabel Morrison, "Pure snow white sometimes tinged with pink," and by another "Pure white."

Madame Gabriel Luizet, "Fine satiny rose," by another "Clear coral rose, beautifully suffused with lavender and pink," and by a third "Delicate silvery pink."

Mrs. John Laing, "Soft pink," by another "Clear bright pink exquisitely shaded," and by a third "Exquisite shade of steel pink."

Hermosa, "Light pink," by another "Beautiful clear rose," and by a third "Bright silvery rose."

American Beauty, "Deep crimson color," by another "Dark rich crimson," and by a third "Deep brilliant pink shaded centre rich carmine."

Catherine Mermet "Rich salmon pink, also rosy pink," by another "Clear shining pink with delicate shaded amber and fawn centre," and by a third "Clear rosy pink," also "Rich salmon pink."

Pierre Guillot, "Bright dazzling crimson passing to carmine," by another "Bright dazzling crimson passing to brilliant carmine," and by a third "Brilliant crimson."

Souvenir d' un Ami, "Delicate rose

shaded salmon," by another "Deep rosy flesh beautifully shaded with rich silver rose carmine," and by a third "Dark salmon pink, shaded silver."

W. Francis Bonnett, "Most brilliant crimson," by another "Intense dazzling crimson," and by a third "Most brilliant crimson."

Bon Silene, "Deep rose," by another "Deep rose color, sometimes bright rosy crimson, occasionally pale light rose," and by a third, "Glowing carmine rose."

Ma Capucine, "Dark orange color," by another "Golden amber, delicately tinged with peach and fawn," and by a third "Dark orange color tinged apricot."

Les roses des Jardins, "Rich cream, rich golden shades," by another "Clear golden yellow, rich and beautiful," and by a third "Grandest yellow."

Safrano, "Bright apricot yellow changing to orange and fawn," by another "Bright apricot yellow changing to orange and fawn sometimes tinted with rose," and by a third "Buff tinted apricot yellow."

Daisy Neyron, "Dark rose," by another "Bright shining pink," and by a third "Clear dark pink shade 1 carmine."

Captain Christy, "Deep flesh color," by another "A lovely shade pale peach deepening in center to rosy crimson," and by a third "Delicate flesh color."

Magna Charta, "Bright pink suffused with carmine, also deep rose shaded light yellow," and by another "Clear rosy red beautifully flushed with violet crimson," and by a third "Bright dark pink."

Papa Goutier, "Bright rose color shaded yellow," by another "Bright Cherry red passing to rich glowing crimson."

Sweet peas are described as being a "Grand blue," and Pansies as being "Beautiful blue." We have seen both of these flowers with all the shades from a light lavender to the darkest shade of purple, but we cannot call to mind ever seeing them blue.

(TO BE CONTINUED.)

A Giant Fuchsia.

Our illustration is from a photograph of an immense specimen of the Black Prince fuchsia, grown by florist W. L. Morris of Des Moines, Iowa. The plant is four years old, nine feet high, twenty-two feet in circumference, trunk eleven inches in circumference, and bore fully 3,000 blossoms at the time the photograph was taken. We can well believe the statement that the plant was a magnificent sight when in flower, with bloom. As shown in the illustration, the "tree" was planted in the center bed and the roof will have to be raised to permit further upward growth.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XXI.

DUTIES OF WITNESSES, ETC.

Ha ha ha! you seem out of place among your flowers this morning. They are enjoying the warmth and sunshine while you look as if a thunder cloud would suit your complexion better. Out of humor are you? Well, unbosom yourself. What has happened? Has your boy drowned those delicate imported chrysanthemums? Or has he burned up your colons? Nothing of the kind, hey? Subpoenaed are you? And right in your busiest part of the season. Well, turn that spray on your own head for a few moments and listen to reason. So you are to be called in to testify as to the value of certain floral decorations furnished by a rival house.



A GIANT FUCHSIA.

Good, that calls for an expert opinion and you have the right to charge for your time. It has taken you years to acquire your knowledge of flowers, decorative plants, etc., and whoever uses your knowledge must pay for it. What you ought to charge? Why, the full value of your time of course.

Yes, if you don't mind I'll talk to you

about the duties of a witness. Every business man is liable to be called upon to give evidence in a court of justice and he should know something about the law on the subject. Bear in mind that an expert witness is called to "instruct" the court, and that an ordinary witness is merely to inform the court and jury of the facts without the expression of any

opinion whatever. The difference is great. As a general proposition I would say to you: Be neither an eager nor an unwilling witness, either extreme is bad, and above all don't put any feeling into the matter. What judge and jury want is the facts laid bare of all opinions and speculations. These only serve to befog the jury.



WELL ARRANGED WREATH

For instance, if you are asked whether a customer sent for a certain basket of flowers. You answer in the affirmative, the next question is: How do you know? You reply that he left the order with one of your assistants. Now, you perceive you are here testifying to a matter of which you have no personal knowledge. Personal knowledge is a necessary factor in all legal evidence. Everything outside of this is hearsay.

Never attend court as a witness unless you are duly subpoenaed and your fee as a witness handed to you. It is your duty then to be present at the opening of court and to remain in attendance until dismissed by the attorney who calls you.

Both sides have the right to subpoena you, but the same side can not both examine and cross-examine you. A party

is bound by the utterances of his witness, still he may prove that his witness was mistaken on any certain point.

Before going to the stand you are either compelled to make oath or affirm. You ask me what the effect would be if it turned out the book was not a bible. I answer that it would not invalidate your testimony.

Some people have an idea that they may legally suppress the truth. That is a great mistake. The maxim is that a suppression of truth is an expression of falsehood. You are entitled to a fee for each day's attendance at court.

A physician's certificate will excuse your non-attendance. A sick person, or a person about to leave the country may have his testimony taken by what is called a commission, that is the two lawyers

attend with an officer appointed to take down the evidence, or else questions are written out and sent to a notary to be put to the witness.

You ask whether upon the re-trial of an action the same evidence may be used again. I answer not unless the witness is again present. Then it may be read to him and accepted if he makes no addition or explanation.

Now the law doesn't expect anything unreasonable of a witness, for instance, to remember a date or the words of a conversation ten years after. You may always refresh your mind by looking at any memorandum made at that time.

You want me to explain whether a man is bound by his own receipt. A receipt is not absolute evidence, it is liable to be explained away. I need not tell



VARIOUS FLORAL DESIGNS.

you how easy it is for a business man to part with a receipted bill and not get his money. Your messenger is stupid and leaves the receipted bill. Here is a chance for a dishonest man to try to avoid payment, for you might find it impossible to explain away that receipt.

When you are called to prove the correctness etc. of a bill of floral decorations sold and delivered, if you have a keen lawyer he will not permit you to testify to anything more than just enough to make out a case.

Don't be in a hurry to answer the plea

of the defendant. Wait until he makes known his objections to the bill as rendered. That will be time enough to meet them.

It will often roil you to hear an honest bill called into question, but keep calm and collected, show no temper. If, how

ever, you know through your attorney that the defendant intended to claim that your bill for floral decorations was exorbitant, then you must have expert witnesses on hand to swear to the value of such merchandise. Your own declaration as to their value will not be sufficient.

In the direct examination your lawyer will not be allowed to "lead" you, that is to put words into your mouth. For instance, not to ask, Didn't the defendant say to you that he would pay you five dollars extra if you would arrange the floral decorations on the wall? but to ask What did the defendant say? What did he promise to do?

But on cross-examination it is like love and war, everything is fair. The object of a cross-examination is to grind, pulverize, sift and winnow the direct story as told by a witness, and thus to discover whether it is genuine or not, how much is chaff and how much grain, how much sand and how much gold, how much fact and how much imagination.

For example, in your story of the floral decorations you will be asked: Did not the defendant merely say he would try to get you five dollars extra? A sharp lawyer always tries to rattle a witness' temper, so as to make him talk fast and say more than he ought. Be on the lookout for such treatment. For instance, he will ask: Did you not tell Jones that you intended to "stick" that committee for those floral decorations? Didn't you say to Smith, I have put the price up so as to cover all "divvies?"

Don't let these assertions anger you, and yet don't contradict them in too spirited a fashion. That looks bad. Don't reply: It's not my custom to make out a dishonest bill, for that is not "responsive," and you must always be "responsive" when acting as a witness.

Nor should you testify to your own business standing, let others do that. Many a case has been lost by a witness striving to be witty or amusing. Don't attempt it. Once upon the witness stand you are part and parcel of the machinery of justice. You may not refuse to answer a question under any pretext except that it would tend to degrade you or render you liable to criminal prosecution. Under our free government no man is called upon to convict himself.

To prove an account for goods sold you must produce your book of original entry, no other is admissible, and if you didn't make the original entry must have your clerk present with you.

You want to know how old a child must be to give evidence. The old rule was seven years, but now the court will admit the testimony of a child of any age, it's all a question of intelligence, and no cast iron rule exists.

Where there are two witnesses who swear exactly opposite to each other it is for the jury to make choice. Witnesses are weighed not numbered, and a jury may reject the evidence of three men and accept that of a single woman.

If a witness is caught in a single falsehood it damages his whole testimony, unless of course it is a mere error of memory. A good witness is never too exact. That looks suspicious.

Well, I have probably given you some ideas which will be useful to you in your business life. Remember the old commandment: "Thou shalt not bear false witness against thy neighbor."

UNCLE BLACKSTONE.

Various Floral Arrangements.

We present herewith another group of floral arrangements, of which photo-



SHIRLEY HIBBERD.

graphs have been sent us by subscribers from time to time.

We do not endorse all of these designs as models to copy from. In fact in many of them we consider that the flowers have been worse than wasted by being crowded together and robbed of all their grace and loveliness. But we recognize the fact that when such pieces are demanded the florist must supply them or lose a profitable order, and that it will probably be a very long time before the public in general is sufficiently educated to abjure such monstrosities as, for instance, the windmill. The florist should endeavor on every possible occasion to elevate the taste of his patrons, and lead them up to an appreciation of the really beautiful, but he can not afford to attempt to force them in the right direction against their wills, as he depends for his livelihood upon his ability and readiness to satisfy his customers.

The Late Shirley Hibberd.

In the late lamented editor of the London *Gardeners' Magazine* I have lost a very near and dear friend. Our acquaintance began about thirty-five years ago and we soon became intimate friends of kindred spirit and continued as such till the last. In 1861 when he became editor of the *Gardeners' Magazine* it had only a few hundred subscribers, but he imbued it with such vigorous new blood, and impressed upon it such a pronounced stamp of brilliance, wit, humor, and sarcasm together with an intimate and superior knowledge of practical floriculture and horticulture, that the magazine rose,

almost immediately, from its low ebb to a swell tide, and took rank as one of the leading English horticultural weeklies. Mr. Hibberd himself was reflected in every issue—his keen observations, his forensic thought, his jovial wit, and when occasion required, his withering sarcasm, all were there.

Not only was he the editor of a great magazine and the author of many works on garden topics, but he also was an excellent practical cultivator of plants, and an earnest hybridist and experimenter with them. Zonal pelargoniums were one of his hobbies, but most other florist's flowers also received due attention. His collection of ivies was the most complete in the world, and his monograph on ivies is a very valuable book.

He was likewise much interested in growing and testing vegetables—potatoes especially. The varieties of potatoes known as Alpha, Model, Sextus, and Champion were named by Mr. Hibberd from among a collection of twenty varieties that I raised from seed and sent to him for trial.

JOHN THORPE.

Well Arranged Wreath.

The wreath illustrated was arranged by C. B. Whittall & Co., of Milwaukee, and we are indebted to them for the use of the engraving. The arrangement is certainly very graceful and effective, and we feel assured that those of our subscribers who have been asking for illustrations of well arranged examples of designs most commonly called for, will find an useful suggestion in the wreath shown.



CHRYSANTHEMUM WABAN.

Chrysanthemum Waban.

This is a new double pink after style of Robt. Crawford but more double, more incurved and broader petals. Awarded certificate at Philadelphia in November last.

The Cineraria.

In your December 11 issue of the AMERICAN FLORIST you quote a note of Mr. J. Douglas' from the *Gardeners' Chronicle*. Mr. Douglas gives a very interesting account so far as the cultivation of it in England is concerned, but there is a sentence or two in it that I think requires qualifying. It is an old saying that doctors often differ, but in this case the difference in climate might be the cause of our opposite views on the culture of the cineraria.

The first sentence to which I refer is growing cinerarias from offsets of the old plants after they are through flowering. Now it would be almost impossible for them to survive our summer heat. Here the most successful way to grow them is from seed sown anytime from the latter

part of July until the middle of August. If sown during this time you can have a very good showing by the middle of February, providing you give them anything like good treatment.

The seeds should be sown on the same plan as most annuals are. A cold frame in a somewhat shady place would be the most desirable position for them to germinate in. After they have made one or two leaves, they might be potted into small pots and set back into the cold frame again keeping them a bit close for a day or two until they revive from the check, which they may receive. After this they can be uncovered on all favorable days, excepting in very severe storms, until about the time we are going to have a frost, then it is advisable to bring them into the cool greenhouse where a temperature of 40° to 45° is maintained. Here they are very liable to get infested with green-fly, but a mild fumigation with tobacco stems two evenings a week will be a preventive of any increase of it. You must give close attention to the foremost growing plants, never allowing them to get pot bound until you have put them into their flowering pots; then after they

are well rooted a watering about three times a week of liquid manure will help them greatly to make the flower scapes more perfect.

When they are through flowering it will be found cheaper to throw the old plants away than to trouble otherwise.

Summit, N.J. PETER MACDONALD.

Chrysanthemum Seed.

To ripen chrysanthemum seed, give the plants all the sun possible, keep the temperature about the same as for roses and in watering avoid wetting the blooms. The seed must be set either by insects or hand, this is done by dusting the stigmas with pollen, these are thickly studded all over the center of the flowers, besides one at the base of each petal, tubelike petals can be gently torn open to reach it.

Many kinds ripen their pollen before the stigmas are ready to receive it, this gives us and the bee-fly a chance to do some crossing. Perfectly double flowers make very little pollen, and the stigmas are so hidden among the petals that they do not set seed without artificial aid

unless the petals are cut off short, and not always then.

Early varieties begin to ripen seed about the middle of December. The seed can be sown as soon as ripe. It does not take long to germinate. RICHARD BAGG, Bridgeton, N. J.

Magnolias.

Among hardly deciduous shrubs for florists' use there is a bright future for some of the magnolias. Not only are they indispensable as outdoor hardy shrubs, but for forcing as we do lilacs or deutzias, and the only thing that stands between them and general use is their, as yet, comparative scarceness.

The most eligible kinds for forcing are *M. stellata* (Halliana of some growers) and *M. conspicua* (Vulan) and *M. obovata* and their varieties and hybrids. These are deciduous species, hardy, free flowering, showy and among the earliest plants to bloom in spring; they set their flower buds the year before and after a decided rest are on the quiver for the first best of balmy spring weather to rush into bloom. Such susceptible plants are always easily forced. But they are too valuable to force and then as soon as they have done blooming pitch them out as one would a deutzia. If kept in good condition they can be forced every second year. Among white flowers what could be more showy than *Magnolia conspicua* in winter?

Magnolia stellata is a very bushy, dwarf species from Japan, and one of the easiest to transplant. Its flowers are white, very abundant, fragrant, somewhat small compared with magnolias generally, and the petals after a few days become reflexed. It is the earliest to bloom of all the magnolias, opening its flowers here in the second week of April and long before the leaves appear on the bushes. Plants only a foot high bloom freely.

Magnolia conspicua or Chinese *Vulan* is a much larger plant and has stiff, upright, pure white, large fragrant blossoms that appear about the middle of April. The waxy petals are easily damaged outdoors by wind or rain storms, but under glass their purity and perfection are assured.

Magnolia obovata is a Japanese species and the one so common in old gardens, although beautiful in its way, it is, in my opinion, so far behind *Soulangeana*, *Lemni*, *speciosa* and other of its offspring, that I would give these the preference.

Magnolia parviflora is a delightful species, but later blooming and too expensive to handle in quantity. Its variety (?) "minor" has the same advantages and disadvantages. *Magnolia Kobus* is of no use; it is exceedingly shy and its blooms are small. Our native *M. glauca* and its variety *Thompsoniana* bloom a little later and are neither profuse nor showy enough for greenhouse work.

The large leaved magnolias *M. umbrellata* and *M. macrophylla* are splendid out of doors, but too big for the greenhouse; and the same is the case with the rare and grateful *M. hypoleuca* from Japan. By the way, this species *hypoleuca*, blooms abundantly with us every year. Out of all question are *M. Fraseri* and *M. acuminata* for they are timber trees; and although *M. cordata* also assumes the proportions of a middle sized tree, it blooms while quite a small bush, and it blossoms twice a year, but its flowers are not showy.

Magnolia grandiflora, the grandest species of the genus, is only at home out

doors and in the south. Next to *M. grandiflora* ranks *M. Campbellii*, a species indigenous to the high mountains of Sikkim and Bhutan, but it is not hardy here and seems to be ill at ease under any circumstances. We have it but bring it indoors into a pit over winter.

The delicious little *Magnolia fasciata* is a favorite garden shrub in the southern states and greenhouse plant in the north.

W. F.

News Notes.

SOUTH FRAMINGHAM, MASS.—W. S. Phelps & Son the florists are settling under an assignment.

VERNON, TEXAS.—C. A. Weidigen has started a florist business here with two greenhouses 10x60 each.

TORONTO, ONT.—There was a large attendance at the monthly meeting of the Gardeners' and Florists' Club held on the 10th inst., and a long list of applications for membership was considered and accepted. A special meeting will be held later in the month.

SAN FRANCISCO—At the regular monthly meeting of the California State Floral Society, held on the 12th inst., the California golden poppy was selected as the state flower. The managing committee of the recent chrysanthemum show reported that a surplus of \$227 would remain after the payment of the premiums. The chrysanthemum will be discussed at the next meeting.

BALTIMORE.—At the meeting of the Florists' and Gardeners' Club held the 8th inst., Mr. John Donn read an excellent essay entitled "Chrysanthemums; their propagation and subsequent treatment." The report on the recent chrysanthemum show announced total receipts of \$1,376.15, and a balance after paying all expenses, of \$535.47. It was suggested that the club give a two-days show next spring and action upon same will be taken at next meeting.

CAIRO, ILLINOIS.—The Ohio and Mississippi Horticultural Society met at the Halliday House December 8 and adopted a resolution to disband. The society was composed of fruit-growers from Tennessee, Kentucky, Missouri and Southern Illinois, with Thomas Buckle of Villa Ridge, Ill., president, and Dr. Dubois of Cobden, Ill., secretary. The purpose is to organize in its stead a Southern Illinois Society, to be under the jurisdiction of the Illinois State Society.

BUFFALO.—At the last meeting of the Florists' Club, held on the 9th inst., the principal event of the evening was the presentation of an elegant gold watch to Secretary Daniel B. Long by the other members of the club. The presentation address was made by President Scott, in which he said that the club felt itself deeply indebted to Mr. Long for the interest he had shown in the club and its undertakings and in the time he had given to the getting-up of the late flower show to the neglect of his own business. The members in making this presentation, he said, were only recognizing in a small way the obligation they were under to him. Mr. Long replied that he had done the work gladly and without any thought of the cost. He was deeply interested in the profession and was willing to do what he could to push it forward. A spirit of liberality was, he felt, as necessary to success as it was a pleasure to those engaged in the business.

Echoes From Philadelphia.

Robert Alphabet Kift has topped the score so far on the new bowling alley. He now swings to the tune of 211—two hundred and eleven!

The crops of Hybrid roses have not been satisfactory up to date this year. One crop of Mr. Lemuel Ball's is quite over. Some of them were good flowers, but the majority of them were comparatively short in the stem, and were not perfect in form. Most of the florists who had to sort them over the counter were very much dissatisfied with them. The variety was Mrs. John Laing. It seems to be useless to attempt to force this rose very early for this market, for, unless it is managed very nicely it will not give grower, retailer, or customer much satisfaction. There is only a limited demand for high-priced roses, apparently, here before Christmas. Mr. John Burton's first and second batches were not nearly so good as they were last year. Mr. George Anderson expects to have a house in for the holidays.

There is more demand for *Mme. Cusin* and *Mme. de Watteville* than formerly. It took "Cusin" some time to make the desired impression on conservative Philadelphia, but it seems now to be a fixed favorite for some time to come.

Some fine *Mme. Hostes* are being cut by several growers, but there seems to be a disposition to frown upon it by some of the city florists. It is ideal in form, but the trouble seems to be with the color. Its being a new rose may have something to do with the prejudice that there seems to be against it.

The greatest novelty for Christmas presents from a horticultural point of view this year are some miniature trees from Japan, a species of *arbor-vitae* and pine. H. A. Dreer and Evans & Battles had them, and very unique and beautiful they are.

Growers can not say "no sun" this season, for it has been the brightest December that can be remembered by those who take note of these matters. Consequently the indications are in favor of a fair supply of flowers for Christmas.

Amongst carnations "Grace Wilder" is still the favorite. J. W. Colflesh still grows "Mrs. Cleveland" and "Century," but he has had to part with *La Purite*. August Muller speaks very highly of "Wm. Swayne" as a good flower and an abundant bloomer. He likes it better than "Peter Henderson." John Savage has "Himze's White" looking fine, so also are his *Grace Wilders*. Bilger & Company have as fine a lot of carnations as one could wish to see. Thos. Butler speaks highly of *Portia*. The demand for carnations seems to be continually on the increase, and this does not surprise us for it is second only to the rose for general usefulness. L.

Awards at Exhibitions.

Is it not rather painful to the readers of the FLORIST to see this squabble over the prize on standard flower pots awarded at the late Boston exhibition continued, even if in the advertising columns?

Only one could win the prize. I have never bought any pots of Hews & Co., but I do not see the least reason why they should not be able to make as good standard ware as The Whilldin Pottery Co. Would it not be best to let bygones be bygones, and for the S. A. F. or any other organization holding an exhibition to take steps to prevent any recurrence



MAGNOLIA STELLATA: FLOWERS WHITE, WITH YELLOW ANTHERS.

(REPRODUCED FROM GARDENERS CHRONICLE)

of a like trouble. Let me suggest here a few rules which it might be well to adopt.

1. The first day of the exhibition should be set aside for the judges to make their awards. Nobody but the judges to be admitted.

2. No names of exhibitors should be attached to their exhibits until the prizes have been awarded.

3. No appeal should be permissible after an award has been made. Any grower who takes his growls before the public should be forever debarred from competing for a prize again.

I do not think it necessary to comment on any of these rules for their merits must be obvious. I would further suggest that the S. A. F. authorize cards to be printed, on which are given the standard measurements of standard flower pots, said cards to be sent for a consideration to all who apply to the secretary

of the society for them. Not only should the inside measurements be agreed upon, but also the width of the rims should forever be uniform. I find these rims a great aid in counting pots. All I have to do is to pile them up in columns of equal height and multiply the number of columns by the number of pots in one. If any brother florist can improve on my suggestions let us hear from him.

CHAS. EVERDING.

Catalogue Premiums Offers and the "Lottery Laws."

ED. AM. FLORIST:—If newspapers containing advertisements offering prizes, gifts, etc. or even publishing the names of those receiving such prizes, are not allowed through the mails, what will be done with florists' catalogues containing

such offers? Will they not also be shut out? Is it not time (if not already done) for catalogue men to look the matter up, as many thousands of dollars may be wasted by the sweeping ruling of the postal authorities in their attempt to enforce the "Lottery Laws." I have seen no reference to the matter in the FLORIST and thought it might be well to get those posted to throw some light on the matter at once for the general benefit.

Again the thought occurs, is not the premium business overdone? Why not mark the goods at a fair price and dispense with premiums? One firm tries to outdo the other in premium offers, till the goods are almost given away. Many retail catalogues offer rates, premiums deducted, that are much lower than ordinary wholesale rates for same stock by same firm.

Dubque, Ia.

W. A. HARKETT.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Adgate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
25 times, 20 per cent; 52 times, 30 per cent.

No reduction made for large space.

The Advertising Department of THE AMERICAN FLORIST is for Florists, Greenhouses, and dealers in flowers pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

COLOR.

In this issue we give the first instalment of a very interesting and valuable article upon color, by Mr. H. H. Battles. The article is the result of several years' careful study of the subject, undertaken at our request and as will be noted it has been prepared with special reference to the colors of flowers. That it contains information of very great value to every member of the craft we are fully assured and we trust that every reader will avail himself of this opportunity—never before presented in a horticultural publication to acquire some familiarity with the subject of the article. It must be admitted that as a class we are lamentably at sea in our color-nomenclature; possibly not more so than many other classes, but in our work exactness is more a necessity than in that of most professions. We consider the article on color as one of the most important we have ever been privileged to lay before our readers and believe that it will be appreciated as a Christmas present of decided value.

In accordance with our suggestion Mr. Battles has also prepared a chart of colors, in which 234 colors and shades of color are given in dyed fabrics, water or oil colors, each carefully named, the nomenclature conforming as nearly as possible to the popular idea of colors as ascertained by careful investigation and comparison. This chart Mr. Battles has also sent us. We aim to use it in some way to benefit our readers, but just how has not yet been decided. At one time we intended to select a number of the principal colors and shades of color used in the descriptions of flowers for a chart, have the same lithographed in colors and publish it as a supplement to the AMERICAN FLORIST. Unfortunately the accuracy which is demanded to make the chart of real value can not be secured except by running the sheet through the press as many times as there are colors or shades of color to be shown, which would make the expense enormous. But the great value to the whole trade of such a chart may induce us to incur even so heavy an expense if we can find no more economical way of securing the accuracy which we positively must have. As to the convenience and importance of a standard which would always be at hand for reference, certainly no question will be raised.

DID YOU EVER, while travelling by rail in the summer time, and especially in the spring, note the immense number of different shades of green in the foliage of the trees by which you are surrounded? If not, next time you travel through a wooded country, do not fail to watch carefully and endeavor to count the different

shades of green that meet your eye. And if you have not before given thought to the matter, you will be amazed at the apparently endless number of differing shades. Then you will realize that in the arrangement of foliage there are contrasts of color as well as contrasts of form.

Do you mention this paper when you answer an advertisement? The FLORIST is read and paid for by every live man in the trade and really pays the advertiser; but does he know that this paper does the work when you as a buyer fail to tell him so? Will you, kind reader, do us a good turn, which perhaps we deserve for doubling the issues of your paper, by saying every time you write, that you saw the adv. in the AMERICAN FLORIST.

EVERY FLORIST in America whose trade is worth having is on the subscription list of the AMERICAN FLORIST and receives this paper regularly.

Society of American Florists.

The following letter has been received by President Norton:

M. H. NORTON, Esq., Vice-President
Society of American Florists, *My Dear Sir:*—The members of the family of the late Mrs. Francis B. Hayes desire me to express, through you, to the members of the Society of American Florists, their sincere appreciation of your sympathy in her loss, so fittingly expressed in the chaste and most choice floral tribute sent to her funeral. Sincerely,

WM. POWER WILSON.
Boston, Dec. 13, '90.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—As head gardener by a married man, in some public park, cemetery or private place in the northwestern states, thoroughly competent to take full charge. Address
D. care American Florist.

SITUATION WANTED—By February 1 or March 1, as greenhouse-foreman in present position, 12 years of experience; have been in charge of present place 3 years. Address, fitting salary, H. OLSON,
West End Greenhouse, Mt. Pleasant, Iowa.

SITUATION WANTED—By a first class gardener and florist who at present has charge of one of the largest private places in this state. Grower of prize chrysanthemums. State wages. Address, J. K. care C. P. Kummel, 120 Retreat Av., Hartford, Conn.

SITUATION WANTED—By a first class florist: 1) single; temperate; thoroughly posted in all branches—foreman in present position. I wish a change. Expert designer and decorator. Good cut flower grower. Best of references. Address
A D. care American Florist, Chicago.

SITUATION WANTED—As florist. 12 years' experience growing cut flowers. Well up in forcing of bulbs, mixtures and all other matters general plant grower. Age 41; married. References given. Address preferred by mail to
FLORIST, 353 Theodosia Ave., St. Louis, Mo.

WANTED—Two or three hundred rhubarb roots. J. S. WARREN, Medina, O.

WANTED—Foreman and propagator, middle age, single habits good, good recommends required, state wages. Address
A. C. care Am. Florist.

WANTED—To either buy or rent several greenhouses with farm attached, near growing town. Address
W. Box 38, Poinsett, Conn.

WANTED—Salesman, one with a thorough knowledge of greenhouse and outdoor plants. Apply with particulars to
P. O. Box 851, New York City, N. Y.

WANTED—Gardener, married, qualified man with satisfactory references, to take charge of a first class country place, and not a great distance from houses, etc. an important feature. Address
THORNTON, 15 John street, New York.

WANTED—A competent florist and gardener for a commercial place, with experience in forcing roses, forcing of bulbs and other flowering plants. Address with reference and salary required, to
J. A. PETERSON, 41 West 4th St., Cincinnati, O.

FOR SALE—A country hotel with greenhouse, in a prosperous Connecticut town. For particulars address
HOTEL, care Am. Florist.

FOR SALE—Brand new double greenhouse, each 10x20, ready for business, only greenhouse in live growing town of 5,000. Best of reasons given. Address
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H. H. care American Florist, Chicago.

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Having removed to more spacious quarters
(next door) with increased resources and facilities
I am now prepared to furnish at short notice and
in any quantity, selected Roses of every variety,
also all other flowers in market.

Roses to be shipped are especially selected,
and packed under personal supervision.

SPECIALTIES:

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Return telegrams sent when orders or part of
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THE WISCONSIN FLOWER EXCHANGE,

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Wholesale Markets.

Cut Flowers.

BOSTON, Dec. 22	
Roses, Bon Silene	85.00 @ 10.00
" Niphetos	12.00 @ 12.00
" Gontiers	12.00 @ 15.00
" Marie, Superb	12.00 @ 15.00
" Mermets, Brides	30.00 @ 30.00
" La France	20.00 @ 40.00
" Woodtons	15.00 @ 20.00
" An. Beauty	50.00 @ 100.00
Carnations, long	5.00 @ 6.00
Valley	6.00
Roman hyacinth	4.00
Narcissus	1.50 @ 2.00
Violets	2.00 @ 2.50
Callas	2.00 @ 2.50
Bouvardia	2.00 @ 5.00
Asparagus plumosus	15.00 @ 20.00
Smilax	12.00 @ 15.00
Adiantum	1.50
PHILADELPHIA, Dec. 22	
Roses, Beauties	50.00
" Niphetos	25.00 @ 30.00
" Mermets, Brides	20.00 @ 25.00
" Hostes, Watteville	15.00 @ 20.00
" Gontiers	12.00 @ 15.00
" Bennetts	15.00
" Cousins	15.00
" Perles, Niphetos	12.00
Valley	6.00
Carnations, long	3.00
Carnations, short	2.00
Smilax	12.50 @ 30.00
Violets	1.50 @ 2.50
Romans	5.00
Niphetos, Narcissus	1.00
Adiantum	1.50

NEW YORK, Dec. 22	
Roses, Bon Silene	12.00 @ 15.00
" Gontiers	12.00 @ 15.00
" Marie, Superb	12.00 @ 15.00
" Niphetos	8.00 @ 12.00
" Mermets, Brides	20.00 @ 25.00
" Watteville, Cousins, Albany	25.00
" Bennetts	15.00 @ 25.00
" La France	30.00 @ 30.00
Smilax	15.00
Carnations, long	3.00 @ 4.00
Valley	4.00
Violets	2.00 @ 2.50
Roman hyacinth, narcissus	4.00
Mignonette	4.00 @ 8.00

CHICAGO, Dec. 24	
Roses, Perles, Niphetos	12.00 @ 15.00
" Gontiers	10.00 @ 12.00
" Bon Silene	8.00 @ 10.00
" Mermets, La France, Brides	20.00 @ 30.00
" Bennetts	20.00 @ 30.00
" An. Beauties	50.00 @ 75.00
Carnations, short	2.00 @ 2.50
Carnations, long	3.00 @ 4.00
Carnations, long, fancy	5.00
Smilax	15.00 @ 18.00
Adiantum	1.25 @ 1.50
Violets	2.00
Bouvardia	2.00 @ 2.50
Roman hyacinth	4.00 @ 5.00
Valley	4.00
Callas	20.00 @ 25.00
Poinsettia	30.00 @ 25.00
Stevia	1.50
Narcissus	4.00 @ 8.00

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A large stock of ROSES, LILY OF THE VALLEY,
VIOLETS, CARNATIONS, ASPARAGUS,
HYACINTHS and other standard
flowers for the

HOLIDAYS.

HOLLY AND MISTLETOE, of best quality, by
the Case or in large quantities at low prices.
CALDWELL'S LONG NEEDLE PINES,
PALM LEAVES,
MAGNOLIA BRANCHES, ETC.,
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Return Telegram is sent immediately when it
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—OF—

CUT FLOWERS,

1237 Chestnut Street, PHILADELPHIA.

Consignments Solicited. Special attention paid to
shipping. Mention AMERICAN FLORIST.

G. E. & S. S. PENNOCK, WHOLESALE FLORISTS,

38 S. 16th Street, Philadelphia, Pa.

JOHN M. HUDSON, WHOLESALE

Commission Dealer in Cut Flowers,

1225 Market St., ST. LOUIS, MO.

Quick sales and prompt returns guaran-
teed. Consignments solicited.

ELLISON & KUEHN, WHOLESALE FLORISTS,

1122 PINE STREET,

ST. LOUIS, MO.

CUT FLOWERS.

The choicest Cut Flowers, of our own growing,
at lowest market rates, shipped C. O. D. Use A.
F. Code when ordering by telegraph. Telephone
connections. For prices, etc., address
J. L. DILLON, BLOOMSBURG, PA.

☞ The Seed Trade. ☞

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FOTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1901.

More About Advertising.

EDITOR AMERICAN FLORIST.—The receipt to-day of *Printer's Ink* for December 17, wherein is reprinted in full our article entitled "Some Facts and Figures," together with the complete tabulated statement of the returns from forty-eight papers, taken from the AMERICAN FLORIST of November 5, reminded us that there are several explanations which we should make relative to this self-same table. Right here permit us to say that the writer has been considerably criticised for preparing for publication any such list or table of returns. One advertising agent tells us that wherever he goes soliciting seed advertising he is confronted with this table, and that in one case where he expected an advertisement for *Popular Gardening* the seedsman, on looking up the list, said: "Why, that cost Mr. Burpee apparently \$1.32 for every applicant; altogether too high." Now it is just such misunderstanding of the table that we wish to prevent, for we would not intentionally do any first-class paper an injustice. None of the papers have complained to us about the publication of the statement, but two others have inquired why we omitted their names from the list. To these we replied, for the very good reason that the publication of the figures showing the apparent cost of these two mediums would necessitate a very lengthy explanation and might work to their disadvantage. Now for fear of like reaction to the injury of such excellent papers as *Popular Gardening*, *Orchard and Garden*, *Ohio Farmer* and *American Cultivator*, in none of which is the apparent cost less than \$1.21 per applicant, we think we should enter upon this explanation.

All advertisers know that the readers of some papers are more thoroughly trained and more continually urged by the publishers to name that paper in writing to advertisers, but further than this, in such a case as the paper first named, *Popular Gardening*, of which we have shown our own appreciation by engaging 500 lines for this winter's advertising a goodly proportion of the readers, being amateur and professional gardeners, are already on our list and receive our catalogues without applying, consequently while we do not secure as many new customers from advertising in what might largely be termed "Trade Journals of our own Trade," yet it is equally as important, if indeed not rather more so, for us to keep our announcements prominently before the readers of such. As a good illustration of these points we may mention *The Country Gentleman*, which was omitted from our list for the very good reason that of all the tens of thousands of postal cards and letters applying for our catalogue last winter not one could we find mentioning *The Country Gentleman*, and yet there is not a weekly published that we esteem more highly as a valuable advertising medium; ever since 1875 there has not been published a single issue of *The Country Gentleman* in which our advertisement of ten lines or more has not appeared. The very fact of this familiarity of the readers of that paper with our firm and business operates

against their naming the paper as a seemingly unnecessary adjunct to their application. Furthermore we have thoroughly improved the value of *The Country Gentleman* as an advertising medium several times each year, by the insertion in it of special advertisements of certain articles for sale which were not advertised in any other paper. In our last advertisement of this character, of Scotch Collie dogs, we had to write to the editor requesting him to announce the fact that we had already received more inquiries and orders than we could accommodate.

We think the table should save many hundred dollars to seed advertisers, in teaching them to avoid literary weeklies and monthlies that circulate mostly in cities and towns, although so valuable for other lines of advertising, but we trust that the explanation we have made will prevent any of our friends in the trade from omitting from their spring advertising such mediums as those mentioned above. It will be remembered that in our article we stated distinctly that it was only a partial list of papers, but that the proportionate cost of returns was identically the same as from all papers in which we advertised.

In giving you this table for publication we purposely omitted one or two exceptionally productive mediums in the way of mentioning papers, for the reason that should we publish them it would seem as if the entire list was being made use of as a lever to boom one or two special publications. Being thus careful, we did not anticipate that the list would be published outside of the AMERICAN FLORIST, but we find it has already been used in circulars issued both by the *Farm Journal* of this city and the *Farm and Fireside* of Springfield, Ohio—these two papers showing the lowest cost of any on the list of those published. We are quite willing that both of these papers should derive whatever benefit there-published of this list may give them, as they are certainly most excellent mediums and among the longest of the best dozen known to us to-day, but we would be very sorry if the wider publicity thus given should work to the injury of other good papers.

There is another point upon we have intended for some time past to write you: In the first article in your issue of October 15 the writer maintained that Mr. Powers was wrong, as far as seed advertising is concerned, in advocating a change of advertisement with every issue of the paper, but the writer prefaced his remarks by the statement that, "The one lesson which has been most strongly impressed upon the seed grower is how little we really know about advertising."

Now the very fact of preparing these two articles had its effect in concentrating the writer's thoughts to a greater degree upon this winter and spring's advertising, with the result that we have decided to a certain extent, and in some papers, to try the efficacy of Mr. Powers' suggestion. A recent advertisement of Messrs. N. W. Ayer & Son, in which they started with the headline as follows: "Our customers advertise FOR REVENUE ONLY," suggested to the writer a series of political advertisements; this was followed with several others until now we have electrotyped seven different advertisements, each advertising our catalogue in space of two inches, single column, but each different both in wording and heading. We think it only right that the readers of the AMERICAN FLORIST who have followed our articles on advertising should have the opportunity of knowing just what we are doing ourselves in this

line. We have, therefore, expressed to you to-day these seven different types, the first of which you will please insert simultaneously with the appearance of this article, and then continue each week in the order named below, which will serve as an index to those of your readers who care to follow them as they appear in your advertising columns:

"FOR REVENUE ONLY," "FREE TRADE," "PROTECTION," "CHOICE VEGETABLES," "GOOD SEEDS," "TO HOLD," "SATISFIED."

In addition to these advertisements we have prepared, particularly for papers that print indistinctly, a fifteen-line double-column advertisement, in which we use only fourteen words in bold type, offering our farm annual for 1891. In some of the leading papers we will also insert display advertisements of special flower seed novelties. We have thus plainly announced our plans for advertising this winter that your readers may see how thoroughly we believe in the statement that "advertising is by no means an exact science," but is largely experimental.

In reference to the experimental side of advertising we have been much interested in the publication this week of various prize advertisements in *Printer's Ink*, sent in competition for the \$500.00 offered by Messrs. Geo. P. Rowell & Co. for "the advertisement best calculated to bring business" to them. We have responded favorably to Messrs. Rowell's question, "Why don't you have a prize advertisement prepared?" and have today sent to *Printer's Ink* an announcement of two prizes of \$50.00 and \$25.00 each as per copy sent you herewith, for the two best advertisements that may be prepared and submitted to us descriptive of our seeds prior to February 1, 1891.

Now competition for these two prizes is not necessarily confined to the contributors of *Printer's Ink*, but any of your readers who think they would like to try their hands at writing another's advertisements can enter into the contest. By the time the seven advertisements sent you to-day have expired we will probably be in possession of these prize advertisements, and expect then to order their insertion

WE WANT

A PRIZE ADVERTISEMENT

TO SELL SEEDS
AND WILL PAY \$50.00 FOR IT.

We have good seeds—there are none better—and we have always told the truth about them—with the result that we annually supply many thousands of planters, direct through the mails. But while no one can see us as we sell we do, doubtless there are those who can write more "selling" advertisements about our seeds than we can ourselves. We have, therefore, decided to offer a prize of \$50.00 cash to the person who can best calculate to bring business to us. No advertisement to be larger than 5½ inches double column and all copies in competition to be received by February 1st. The advertisements can either be plain or illustrated and our *Farm Annual* for 1901 describing our business and seeds will be sent to all competitors who request it. We will also send, if desired, proofs of advertisements prepared by ourselves for present use, these may even "crude" to some professional writers, but will give every facility toward the preparation of better. We will pay the \$50.00 or before Feb. 1st, 1891, and should there be a second advertisement also of special merit we will gladly pay an additional prize of \$25.00. We reserve the right to keep for our exclusive use any other advertisements sent in competition, which may appear attractive upon the payment of \$5.00 (five dollars) for each advertisement so retained.

In the matter of illustrations, the competitor can clip any cut from our catalogue or design a new subject. The illustrations will be allowed the awards will be entirely impartial and, as far as possible, unprejudiced by old ideas. In deciding upon the winners of the contest we will be taken into consideration; the first and second prize-winners will be announced in *Printer's Ink*. W. A. J. E. Seed Growers, Philadelphia, Pa.

in your columns, where your readers can see what are the results of this novel prize contest.

Before closing this third paper we would desire to emphasize one fact, and that is that we think the aim of newspaper advertising should largely be to create new trade and that there can readily exist the most perfect good fellowship between rival advertising houses. For are we not all aiming either to educate the masses into a love of flowers and of gardening, or to draw farmers and gardeners away from the commission seed boxes at the corner grocery, and get them into the habit of using the mails for their supplies of seeds?

W. ATLEE BURPEE.
Philadelphia, Dec. 17, 1890.

BOSTON.—Mr. R. Farquhar, father of Robert, James and John Farquhar, the South Market seedsmen, has just arrived here from Scotland. For nearly half a century Mr. Farquhar had been gardener at Fyvie Castle, Scotland. He was a specialist in the cultivation of the potato.

SECRETARY JOHN FOTTLER, JR., of the American Seed Trade Association, has called a meeting of the Executive Committee at Boston, January 10.

Springfield, Mass.

Mr. H. Groat of this city has an unnamed seedling carnation which is a bright magenta and which measures over two and one-half inches in diameter, being very double. Another unnamed seedling is pink, very much like Mrs. Cleveland in color, form of bloom and habit of growth. There has been a large amount of large floral work executed here lately, most of which has been done by Miller Bros. Among them are two pieces of special merit, a roll of honor four feet high, made of Niphetos roses and Romans with a diagonal line of wheat. The sides were of pansies and the roll of Perle roses.

JAPANESE PLANTS,

Trees, Shrubs, Bulbs, Seeds, Etc.

offered at low prices by

FELIX GONZALEZ & CO.

Direct Importers and Exporters,

303 to 312 Wayne and Crescent Ave.,

SAN FRANCISCO, CAL.

Wholesale Catalogue mailed free on application.
Mention American Florist.



Vegetable Seeds for Market Gardeners.

Flower Seeds and Bulbs for Florists.

Our reputation among the critical Market Gardeners of this country, for having varieties and strains specially adapted to their wants, is second to none.

Our new Florists' and Market Gardeners' WHOLESALE PRICE LIST is the best and most complete list of its kind ever sent out. Write for it on your printed letter-head or enclose business card to show you are entitled to it. Our Horticultural and Poultry Supply Circulars are complete and can be had for the asking.

JOHNSON & STOKES, SEEDSMEN,

217 and 219 Market Street, PHILADELPHIA, PA.

Mention American Florist.

TUBEROSE BULBS.

- Best stock in several years. Send for sample and —
- prices, stating quantity wanted. Reliable Bulbs, free —
- from disease, at lowest prices.

J. C. VAUGHAN, CHICAGO.

G. J. MOFFATT,
Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.

Samples and prices on application. When writing for prices, please state sizes and quantity wanted.

HENRY METTE,
Seed Grower and Merchant,
QUELDINBURG, GERMANY,
(Established 1787.)

Wholesale Catalogue free on application. Special low prices given for large quantities.
Mention American Florist.

We do not advertise

FOR REFERENCE ONLY

But also for the Purpose of
Advancing the fame of *Burpee's Seeds*.
That which there are **NONE BETTER**.
Our Mail trade is now the largest.
And we can faithfully serve you.

Burpee's Farm Annual for 1891

Tells about our unusual facilities
For growing the very Best Seeds.
Shall we mail you a FREE copy?

W. ATLEE BURPEE & CO.
PHILADELPHIA, PA.

TUBEROSES.

We have just on hand about 25 (extra fine Double Italian Tuberoses. Also a few thousand Pearl-
CALLADIUM ESCULENTUM. Any size from 6 to 15 inches in circumference.

AZALEAS. 4 to 6 inch pots, in bud.
CLEMATIS CRISPA. 100 delivered free on receipt of \$1.00.
For prices write for our wholesale price list.

JAMES M. LAMB, Fayetteville, N. C.

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale Importers should write us their prices.

Our new Bulb Catalogue is now ready. Will be mailed free on application.

J. A. DE VEER,
18 Burling Slip, NEW YORK.

SPECIAL OFFER OF

FORCING BULBS.

Without Engagement.

Dutch Hyacinths. In separate colors, single or double, per 1000, \$3.00; 100, \$3.50; doz., 50c.

All colors, mixed, single or double, per 1000, \$5.00; 100, \$5.50; doz., 75c.

Roman Hyacinths. Double, light pink, per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Double yellow. per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Single blue. per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Single yellow (Glowing). per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Tulips. In best varieties for forcing, per 1000, \$3.00; 100, \$3.50; doz., 50c.

In the mixture of all colors. per 1000, \$3.00; 100, \$3.50; doz., 50c.

Narcissus. single, Burbridge, pure white, 2.75 0.40

Ponticus (Queen's Eye). 1.00 0.15

ornatus, early, and

splendid for forcing. 2.25 0.40

Prinsepae, large, double ("Butter and

Double, incomparable ("Butter and

Double, yellow, double yellow. 2.00 0.30

well. per 1000, \$9.00; 100, \$10.00; doz., 1.50.

Orange Phoenix ("Eggs and Bacon")

white and orange one of the best. 2.25 0.40

Von Sten. the double yellow Daffodil,

large, double yellow, the best of all for

forcing. per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Five mixed. for forcing, per 1000, \$10.00; 100, \$11.00; doz., 1.50.

In best sorts, for forcing. per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Polyanthus, Narcissus, Chinese or

Sacred Lily (true). per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Grand Primo, white. per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Grand Soleil d'Or. per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Lilium Batemanii. per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Candida (double crown, very large, in

solid bulbs. 2.50 0.50

Chalcidoneum, each, 25c. 2.50

Excellens, each, 25c. 4.00

Harrisii, 547 in. circ. 1.00 1.25

Harrisii, 145 1.00 1.00

Longiflorum 547 in. 3.00 1.50

Pomponium Vernalis, 317 in. bearing

splendid for forcing. per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Tenatium. brilliant, very large, in

double. per 1000, \$10.00; 100, \$11.00; doz., 1.50.

Valota purpurea. 30c. 3.00

Valota purpurea. 30c. 3.00

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Valota purpurea. 30c. 3.00

Boston.

Trade in Christmas greens of all descriptions has been very brisk this year. Mistletoe, both domestic and imported, has in consequence of more careful attention to packing arrived in much better condition than heretofore.

Holly has been generally of good quality, well berried, notwithstanding the unfavorable reports from some of the holiday sections.

Long needle pines are gaining rapidly in favor. They have had an uphill job since their first introduction into this market a few years ago, but are now accepted and demanded as a leading article in decorative stock, not for Christmas alone, but for large decorations of all descriptions during the winter months. There has been a largely increased demand for small berry bearing plants, especially the scarlet fruited varieties such as ardisias, solanums, etc., well furnished plants selling at sight regardless of price. Diminutive orange trees, bearing fruit, have also been in great demand but difficult to find.

The most unsatisfactory feature of the holiday business this year has been the very general and serious delays on all the freight lines. Complaints come from all sides, and many have been the disappointments and annoyances to both wholesalers and retailers.

During the week preceding Christmas week while the greater part of the eastern half of the United States was deep buried in snow, Boston was entirely exempt. It was a singular and somewhat humorous condition of things to receive here in Boston, while the streets were dry and the skies clear, telegrams from North Carolina and Virginia, hundreds of miles to the southward, stating that it was impossible to fulfil mistletoe contracts on account of the heavy snow drifts.

W. J. S.



ROSE HILL NURSERIES,

New Rochelle, N. Y.

NEW AND RARE PLANTS,

HARDY PLANTS,

Orchids,

Palms,

Ferns,

CUT ORCHIDS AT ALL TIMES.

ORCHIDS.

Unestablished Odontoglossums.

Splendid plants, per 100, \$25, with full directions for growing and cultivating.
ASSORTED ORCHIDS, containing 10 different varieties, per 100, \$25.

BRACKENRIDGE & CO.,
Established 1854. Govans town, Md.

ORCHIDS.

Established and Fresh Imported plants, mostly useful for Cut Flowers, at very low prices.

Write for our Price List.

FREDERICK MAU,
P. O. Box 322, SOUTH ORANGE, N. J.

FOR SALE.

THE CUTS

USED IN ILLUSTRATING THIS PAPER.

Write for prices on any which you have seen in previous issues and would like.

AMERICAN FLORIST CO.

CHICAGO.

NEW CHRYSANTHEMUMS.

VAUGHAN'S "Florists' Set" FOR 1891.

We have secured a set of **TEN** from representative American hybridizers. We have put the price within the reach of every florist who owns a hundred feet of glass. Let us have a Fall show in every city in '91. There is no advertising equal to it.

Read the names of those who have each contributed specimens worthy of their reputation and which we are willing to stand behind.

Beacon (Fewkes & Son) White; Chas. Henderson (T. H. Spaulding) Gold bronze; Clara James (W. K. Harris) White, pink tint; Mermaid (Fred Dörner) Pink; J. C. Vaughan (John Thorpe) Crimson; Mrs. A. Rogers (Siebrecht & Wadley) Yellow; Louis Boehmer (P. Henderson & Co) Pink; Fremont (Fewkes & Son) Yellow; Shenandoah (Robert Craig) Crimson, yellow center; Waban (Fewkes & Son) Pink.

A complete range of color. Full descriptions on application.

The 10 for \$5.00 April 1st:

Send a postal card **TODAY** will book your order.—"A cure for hard times"

J. C. VAUGHAN, GREENHOUSES,
WESTERN SPRINGS, CHICAGO.



DREER'S MAMMOTH VERBENA SEED.

NEW CROP NOW READY.

Choicest mixed varieties in the brightest colors. Per trade packet, 50c.; 1/2 ounce \$1.25; per ounce, \$4.00.

Seedling Verbena plants are now preferred by the leading florists to cutting plants because of their vigor and freedom from rust. The strain we offer is selected with especial reference to bright and salable colors.

COBEA SCANDENS per oz. \$.75

SMILAX SEED per pound, \$12.00; per oz. 1.00

CENTAUREA CANDIDISSIMA per 100 seeds, .35

" " GYMNOCARPA, per oz \$1; " " .50

Preliminary Flower Seed List to the trade of seasonable seeds now ready; mailed free to the trade.

HENRY A. DREER, PHILADELPHIA.

VERBENAS

50,000 READY NOW. 50 VARIETIES.

Strong plants, 3½-inch pots. \$1.50 per 100; \$2.00 per 1000
Rooted cuttings. 1.00 " 8.00

Our Verbena this year is the finest we have ever grown.

No Rust or Mildew.

Packed light, and satisfaction guaranteed. Sample on receipt of 25 cts.

J. L. DILLON, BLOOMSBURG, PA.

VERBENAS.

—STRONG AND HEALTHY.—

Ready for immediate shipping. Per 100 Per 1000

General Collection, 2½-inch pots. \$3.00 \$25.00

N.Y. Mammoth set, 3-inch pots. 3.00 30.00

Rooted Cuttings. 1.25 10.00

General Collection. 8.00 80.00

Ampelopsis Veitchii, strong plants. 8.00 75.00

Begonia Rex Types, 3 & 4-in. pots 18 & 12.00

Violeta M. Louise, rooted cuttings. 1.25 10.00

Heliotrope in variety, rooted cuttings. 1.25 10.00

Coleus in variety, rooted cuttings. 1.25 10.00

WOOD BROTHERS,

(Successors to I. C. WOOD & BRO.) FISHKILL, N. Y.

Verbena Now Ready

ABSOLUTELY FREE FROM DISEASE.

Per 100 Per 1000

Mammoth, strong, 2½-in. pots . . . \$4.00 \$35.00

General Collection, 2½-in. pots . . . 3.00 25.00

Address J. G. Burrow,

FISHKILL, N. Y.

IMPROVED GIANT VERBENAS.

By five years of high culture and careful selection I have obtained this magnificent strain and justify claim it the finest ever produced. Single flowers measure over an inch in diameter, borne profusely in large, ball-like umbels. Finest colors. Every florist should sow it. Per trade pkt. 25 cts.; 3 pkts. 60 cts.; 6 pkts. \$1.00.

JOHN F. KUFF, Shiremanstown, Pa.

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:

25,000 Dwarf budded Roses in sorts.

3,000 Rhododendrons in sorts.

3,000 Azalea Mollis and Pontica in sorts.

2,000 Clematis, extra strong plants.

Trees, Shrubs, Evergreens, Conifers, Paeonias and other herbaceous plants.

PLANTS FOR FORCING AND DECORATING.

Address P. OUWERKERK,

P. O. Box 1845, NEW YORK CITY.

Catalogue on application.

Mention American Florist.

VERBENAS.

Per 100

IN 15 CHOICEST VARIETIES, NICE HEALTHY

AND CLEAN stock per 100 \$25.00 \$2.75

CHINESE PRIMROSES, from choicest seed

2-inch 3.00

GERANIUMS, 20 good salable vars., 2-in. 3.00

" " Mad. Salleri, 2 in. 3.00

CANNAS, dry bulbs, choice kinds 2.50

MOON VINES (Ipomaea Nocteplyton) 2-in. 3.00

ASPARAGUS Tenuissimus, 2½-in. 4.00

COLEUS, best varieties, 2-in. 2.50

HELIOTROPES, 2 and 2½-in. 3.00

DOUBLE WHITE FEVERFEWS, 2-in. 3.00

Address N. S. GRIFFITH,

JACKSON CO. INDEPENDENCE, Mo.

(Independence is well located for shipping, being 5 miles east of Kansas City.)

TO CLOSE THEM OUT

For Cash.

Per 100

Abutilon Eclipse, 3-inch, \$6.50

Manettia bicolor, 2½-inch, 5.00

" " 3-inch, 9.00

Portia and Alegatier Carnations,

strong, in 4-inch pots, fine for

benching, 6.00

New Geraniums and Chrysanthemums.

Lane's Mountain View Greenhouses,

RUTLAND, VT.

SEND FOR A COPY

—OF OUR NEW—

TRADE DIRECTORY

Price, \$2.00.

AMERICAN FLORIST CO., Chicago.

Chrysanthemums.

"THE WORLD'S FAIR SET."

We have been to great expense, sparing neither time or money in collecting this unequalled set. Characteristic of the leading city of this country, we have named them in honor of our representative citizens:—FERD W. PECK, or GALLIA, and J. V. FARWELL, or W. M. RUDD, were two of the set of six seedlings that took the \$100 prize at Indianapolis; S. W. ALLERTON and GEO. R. DAVIS were raised by Monahan of Philadelphia, who has originated some of our finest varieties. CYRUS H. MCCORMICK was raised by Jamieson, and is one of the finest of the present year's novelties. The remaining eight are the XXX selections of 1800 seedlings that were raised by the leading grower of this country. In comparing them with the different sets sent out this year we unhesitatingly say that they are second to none.

LYMAN J. GAGE, a grand late white.
GEO. R. DAVIS, ox blood red. Wheeler type.
J. V. FARWELL, Lavender without, rosy violet within, a fine keeper.

CYRUS H. MCCORMICK, Dark deep yellow, shaded bronze red.

ANDREW McNALLY, Crimson scarlet, fine for exhibition.

POTTER PALMER, White, seedling from L. Canning, very large.

FERD W. PECK, Rosy pink, fine exhibition variety.

CHAS. H. WACKER, Crimson scarlet, profuse bloomer.

ROBT. A. WALLER, Chamoise yellow, extra.

CHAS. T. YERKES, Bright scarlet and gold, fine cut flower variety.

S. W. ALLERTON, An immense white, fine for pot culture.

MARTIN A. RYERSON, An improved Mrs. Frank Thompson.

FRED S. WINSTON, Cardinal and Indian red of the Carnegie type.

SET OF 13 FOR \$6.00.

Orders booked for the above and also 100 of the leading exhibition and cut flower varieties to be delivered early in January. Send for descriptive list. "Get the best, grow the best, and keep up with the times," is our motto.

VERBENAS.

PERFECTLY FREE FROM RUST.

20 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$25.

Rooted cuttings of same, 100 \$7; 1000 \$9.

Fine stock Heliotrope, 2½-inch, \$3 per 100.

Double Fringed Petunias, 12 vars. 2½-inch \$4.00 per 100.

Adiantum Cuneatum, Decorum and Gracillimum, 5-inch, strong, \$15 per 100.

Frimroses, double, per 100 \$12.50; single, per 100 \$8.00.

Obconica, per 100 \$6.00.

Ceraniums—latest Novelties.

Latania borbonica, 5-inch \$4.00, 4-inch \$3.00 per dozen.

Miscellaneous stock of all kinds.

ROSES.

Mad. Hoste, La France \$5.00 per 100.

Duchess of Albany \$7.00 per 100.

Gentians, Perles, Mermetts, Bon Silences, Brides, Niphetos and 50 varieties of monthly roses, \$4.00 per 100 or \$35 per 1000.

H. P.'s purchaser's choice, \$6.00 per 100 or \$50.00 per 1000.

H. P.'s, our choice, \$5 per 100 or \$40 per 1000.

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

EXHIBITION

CHRYSANTHEMUMS

The PRIZE Winners of 1890,
in three sets.

Send for list.

M. A. HUNT,

TERRE HAUTE, IND.

Mention American Florist.

Foreign Grape Vines for Graperies.

Splendid one and two year old Vines, true to name, grown by an expert. List of varieties and prices mailed on application.

HENRY A. DEER, 714 Chestnut St., Philadelphia.

Descriptive and Wholesale Lists ready January 15th.



We Catalogue all American Novelties for 1891.

OUR NEW SET.

YONITZA, ARISTINE ANDERSON, ALCAZAR,
OETA, ROBERT FLOWERDAY.

Ready for Distribution March 1st.

NATHAN SMITH & SON,

167 West Maumee Street,
ADRIAN, MICH.

PLANTS AND ROOTED CUTTINGS.

3000 geraniums, over 40 varieties, fine plants out of 2½-inch pots, per 100 \$3.00; per 1000 \$25.00. List of varieties on application. Includes Mme. Saleroi, 50 crevilles robusta, 4-inch \$1.50. Two large Aloes, 3 feet above tubs, \$1.00.
Carnations, 50 Elise's White, 50 C. King, 50 Garfield, out of 4-inch pots, large plants, per 100 \$10.00; per 1000 \$100.00.
Rooted cuttings of these Carnations ready in January. Per 100 \$1.00; per 1000 \$7.00.
Rooted cuttings of Alternantheras, red and yellow, per 100 \$2.00; per 1000 \$14.00.
Adiantums, 50 cuneatum, 50 gracillimum, 50 mixed, 5-inch pots, fine plants, per 100 \$16.00. No charge for packing.

Chinese Primulas, 4-inch, in bloom, per 100 \$6.00.
Rooted cuttings of Chrysanthemums ready January 1, per 100 \$1.00, in the following varieties: Mrs. A. Carnegie, E. H. Fidler, Mrs. Fottler, L. B. Bird, Koto, Mr. H. Cannell, Bride, Mollie, L. Canning, B. Molyneux, Empress of Japan, Mrs. J. Barr, Duchess of Connaught, Hero of Stoke Newington, WANTED—100 rooted cuttings of Fuchsia Mrs. B. G. Hill.

F. FRANCIS,

P. O. Box 169. OSHAWA, ONTARIO.
Mention American Florist.

MY NEW SPECIAL OFFER OF
EXTRA CHOICE FLOWER SEEDS
is now published and may be had on application.
FRED. ROEMER,
SEED-GROWER,
Quedlinburg, Germany.

OUR NEW DIRECTORY

giving a complete and accurate list of the
Florists, Nurserymen and Seedsmen
of the United States and Canada is

NOW READY.

Price, \$2.00.

AMERICAN FLORIST CO.,

54 La Salle Street, CHICAGO.

New York.

Business rather quiet. There is an abundance of all kinds of flowers and the prospects are that we will have a good supply for the Christmas trade. As yet there has been very few large orders received by the florists for Christmas flowers. Poinsettias will be a favorite flower for large decorations. Pink bouvardia is being used extensively for dinner table decorations. Julius Roehrs of Carlton Hill is cutting some very fine Magnas and Alexis.

Chas. R. Christy of Stamford, Conn., the noted La France grower, says his crops were never so satisfactory as they have been this season.

Charley Anderson of Flushing claims the new rose Waban will become a favorite in New York.

At Mrs. Astor's reception last Thursday some novel effects were shown in the decoration of the house. One of which was an arbor of apple blossoms flanked on each side by small orange trees.

English mistletoe has arrived and is selling at \$25 per crate.

There are also some fine specimens of Golden and Silver Queen hollies from the south of England which sell readily at \$10 each.

The North German Lloyd steamers also brought their share of specimen holly trees from Holland and a fine collection of conifers.

Maine Spruce trees are selling well. South American Mistletoe is scarce.

There were many out-of-town florists here during the week ordering their usual Christmas flowers, and report business quiet throughout the country.

JOHN YOUNG.

Rooted Cuttings of Carnations

of all the Standard Varieties ready Dec. 1st. Having added another 100 "got house to our Carnation Department, hope to be able to furnish any quantity desired, on short notice. Orders for future delivery at a 10 per cent off from catalogue price.

JOS. RENARD, Unionville, Chester Co., Pa.

CARNATIONS.

New Seedling Carnation "Hector," brilliant scarlet; has no equal of its color; ready for delivery January 1, 1891. Catalogue ready December 20, 1890. Also plants from 25-cent pots and Rooted Cuttings of "Mrs. Fisher," the leading white.

Also many other varieties.

R. T. LOMBARD,
WAYLAND, MASS.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. Shelmire,
AVONDALE, PA.

ANNOUNCEMENT.

Having rebuilt and enlarged my establishment and increased my facilities for propagating and growing plants in quantity, I am prepared to book orders for my leading specialties, from all who read of them, at the usual reasonable rates, among them will be: *Man-Verbenas*, *Trailing Vincas*, *Gem Peperwies*, *Antonie-Gloria*, *Lactaria*, *6-line* sizes, from \$1.50 to \$3.00 per hundred, 50 *Bouvardias*, in 4-inch pots, nice bushy plants budded, all sizes, from mixed \$2.00 per hundred, securely packed, F. O. B.

J. C. GIBSON, WOODBURY, N. J.

ROOTED CUTTINGS.

— Send for Lists. The prices and quality are sure to please. —

CARNATIONS—All the leading sorts. Eight 100 foot houses.

COLEUS—An immense stock. Twenty-four varieties.

GERANIUMS—A choice assortment in mixture, at \$10.00 per 1000.

CANNAS—French and others, and numerous items of interest to florists. A new feature in Smilax culture.

CARNATION NOVELTIES.

Lizzie McGowan, Louise Porsch, Golden Gate, J. R. Freeman, Wm. F. Dreer, Hector, Edelweiss, Angelus, Dorothy, Nellie Rly, Snow Bird, White Wings, May Flower, Orange Blossom, Beauty of Oxford, Emily Louise Taplin, and others are described in my list.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

Lizzie McGowan.

I beg to announce to the trade that I shall be prepared to distribute this magnificent **NEW WHITE CARNATION** on the 10th of February, 1891, and that the price will be \$12 per 100, and \$100 per 1000, for strong well rooted plants from the cutting bench. Favorable special rates will be allowed on large quantities. Cash or its equivalent should accompany orders from unknown correspondents.

Send for descriptive circular of this and other sorts. Parties wishing a few flowers of Lizzie McGowan can have them by enclosing twenty-five cents in stamps.

ADDRESS H. E. CHITTY, PATERSON, N. J.

LIZZIE MCGOWAN.

I will be prepared to distribute my **NEW WHITE CARNATION** Feb. 10, 1891, and the price will be \$12 per 100, or \$100 per 1000, for Rooted Cuttings propagated from **STRICTLY HEALTHY PLANTS**. Special discount on large orders.

Cash or its equivalent should accompany orders from unknown correspondents. Send for descriptive circular. Parties wishing a few flowers of this **GRAND Carnation** can have them by enclosing twenty-five cents in stamps.

ADDRESS JOHN MCGOWAN,
363 Main Street, ORANGE, N. J.

J. R. Freeman,

This is certainly a grand Winter flowering **CARNATION**, is a seedling of *CENTURY*, fertilized with *ANNA WEBB*; exceedingly profuse flowering and almost all on very long stems. Florets full and very double, does not burst, and is a rich cardinal crimson color, delightfully sweet, clove scented. All who try it will be delighted—many pronounce it the finest crimson they have ever seen.

Strong, healthy plants after February 1st, at \$2 per dozen; \$15 per 100. Special discount on large orders. Sample blooms of this, together with **GOLDEN GATE** and **WM. F. DREER** will be mailed to any address on receipt of 30 cents.

CHAS. T. STARR, Avondale, Chester Co., Pa.

Mention American Florist.

CARNATIONS.

Lizzie McGowan, Fred Creighton, Golden Gate, Fair Rosamond, J. R. Freeman

Hector, Mrs. Fischer, Wm. F. Dreer, Chastity, Silver Spray,

Tidal Wave, Grace Wilder, L. L. Lamborn.

50,000 new in cutting bench including these and 60 other leading vars. Send for price list, ready in 10 days.

GEO. HANCOCK, Grand Haven, Mich.

ROOTED CUTTINGS OF CARNATIONS.

Standard and Fancy varieties, ready January 1st. Stock healthy, cuttings rooted cool. A large stock of **NEW WHITE CARNATION** L. L. Lamborn. A liberal discount on large lots for later delivery. Send for wholesale price list.

Wm. Swayne, P. O. Box 226, Kennett Square, Pa.

CARNATIONS.

HAL

Lock the door BEFORE the horse

is stolen. Do it NOW!
JOHN C. ESLER, Sec'y F. H. A.,
Saddle River, N. J.

Golden Gate, Fred Creighton, Mrs. Fischer, Tidal Wave, Daybreak (Simmons' new pink), Lizzie McGowan, Lamborn, Silver Spray, Orient, Freeman, Buttercup. Rooted cuttings or plants, at market rates. J. C. Vaughan, Chicago.

5,000 *Spiraea Japonica*, fine clumps, per 100, \$3.50.
3,000 *Clematis* 1-Jaco, Rose plants, 4-in. pots, per 100, \$5.00.
Coleus Cuttings rooted, *Veronica*, per 100, \$7.00.
—Golden Broom & Golden Veraschaffelti. — \$10.00.
JOHN RECK, Bridgeport, Conn.

TUBEROUS BEGONIA SPECIAL.

OPEN LETTER TO FLORISTS No. 3.

Dear Sir:—

The Xmas *Garden* seemed to please you very well, judging from your many-fold responses. But the January issue will be still finer. A holly branch in colors adorns the cover.

A 15x16 color lithograph of seedling begonias makes the frontispiece unquestionably the finest floral plate yet issued in America. In fact, this is a **Begonia Special**, many pages being devoted to the Tuberous Begonia by our ablest writers and growers. The superbly illustrated series on **JAPANESE EDIBLE PLANTS** begins in this issue. A splendid assortment of other illustrated matter completes the finest issue of any American horticultural journal up to date. We made you a present of the Xmas issue: Price of this one **20 cts.**, which may be deducted when you subscribe for the year.

Remember our offer to Florists: A commission of 75 cents (net price, \$1.25) if you act as our agent, and order two subs. to begin with, as proof of good faith.

Yours truly,

THE RURAL PUBLISHING CO., Times Building, NEW YORK.

☞ In Club with The American Florist, both one year, for \$2 50

ROOTED * * * * * CUTTINGS FROM CLEAN AND VIGOROUS STOCK.

COLIUS—Eighteen varieties, including Golden Bieder, Verschaffelti, Golden Verschaffelti, Firebrand, Glory of Autumn, Kunray, Peter Henderson, etc. Labeled samples of the set mailed for 20 cents.

VERBENA—Twenty-four varieties, mostly Mammoth. A splendid mixture.
CARNATIONS—Six good cut flower sorts: Portia, Hine's White, Total Wave, Grace Wilder, Buttercup, L. L. Lamborn.

Trade List sent on Application.

Prices and Quality of Stock will please you.

ALEX. McBRIDE,
ALPLAUS, N. Y.

Mention American Florist.

Palm & Dracæna Seed. OF FRENCH, NEW CROP. QUALITY GUARANTEED.

PHENIX Canariensis.....	2 00	\$18 00
" Tenax.....	5 00	18 00
COCOS Romazoffiana.....	10 00	
" Australis.....	10 00	
" Bonnetii.....	10 00	
CHAMÆDOROPS Excelsa.....	1 00	9 00
" Emilis.....	1 00	14 00
" Elegans argentea.....	4 00	36 00
" Tomentosa.....	4 00	36 00
ARECA sapida.....	4 00	36 00
DRACÆNA indivisa.....	per Kilog \$7 00	
" Linnæi.....	5 00	
" Veitchi rubra.....	5 00	
" Australis.....	5 00	

—Also General Nursery Stock—

Send orders to **LETELLIER & FILS,**
GENERAL NURSERYMEN, CAEN, FRANCE.
or to **ANDRE L. CAUSSE,**
33 & 35 Liberty St., NEW YORK.

Special Offer.

Aloylia citridora (Lemon Verbena) 2 in. 2 in. pots.....	50	\$4 00
Anthemum coronaria fl. pl. 2 in. pots.....	50	4 00
Ageratum, white and blue, 2 in. pots.....	50	4 00
Abutilon Filipes, 2 in. pots.....	50	4 00
Ageratum autumnum, 2 in. pots.....	50	4 00
Mesembreanthemum cordata var. 2 in. 2 in. pots.....	50	4 00
Peristrophe aurea variegata, 2 in. pots.....	50	4 00
Rose Geranium, true, 2 in. pots.....	50	4 00
Othonna crispifolia, 2 in. pots.....	50	4 00

A. GIDDINGS, Danville, Ill.



DREER'S DOUBLE PETUNIAS

Now Ready for Delivery, our Select Strain of Double Petunias, in good, strong, healthy stock plants, in 3-inch pots.

The strain of Petunias we offer is too well known to require much description—suffice it to say, that the varieties offered this season are fully equal to our former introductions. The advantage of securing stock early in the season will be readily appreciated, as a limited number of plants will produce a large number of cuttings.

We offer 15 named varieties, at \$1.50 per dozen; set of 15, for \$1.75; \$10.00 per hundred.

Seeds of Double Petunia, from the finest fringed and blotched varieties, saved on our own grounds, crop 1890. Per trade pkt. of 700 seeds, \$1. 25. Our New Trade List, offering all the good things of the season, will be ready early in January.

HENRY A. DREER, Philadelphia, Pa.

NEW FLOWER SEEDS.

Lobelia; Golden Feverfew; Tuberous Begonia, single white, pink, scarlet, yellow and mixed; Verbena; Smilax; Candytuft; Alyssum; Petunia; Asters; Margaret Carnations; Cobaea, etc. Other seeds constantly coming in.

J. C. VAUGHAN, BOX 688, CHICAGO.

BARGAIN GERANIUMS.

PERFECTION, double scarlet; GEN. GRANT, single scarlet. I have a large number of these two varieties, well rooted cuttings, in a fine condition. I must have the room for other stuff, therefore, until sold, I offer at \$8 00 per 1000—cash with order—in quantities of 500 or over.

S. B. FIELD, Roselle, N. J.

Florists in the West.

Buy your greenhouse stock and **CUT FLOWERS** near home.

FINEST STOCK OF YOUNG ROSES IN THE WEST.

All varieties of Cut Flowers in their season.

Write for quotations on what you need to

SMITH FLORAL CO.

77 7th Street S., MINNEAPOLIS, MINN.

SPECIAL OFFER TO THE TRADE.

	Per 100	Per 1000
ANEMONE Pulsatilla.....	\$2 40	\$20 00
DICTYANUS Fraxinella.....	4 50	36 00
HEIS.....	4 50	36 00
" Kamperfer in 10.....	4 00	36 00
" Pomula in 10.....	4 00	36 00
SPICEA ASTILOIDES.....	32 00	20 00
" palmata.....	2 40	20 00
" alba.....	2 40	20 00

Wholesale trade list of Coniferæ: Rhododendrons, Fruit Trees, Hardy Perennials, Rockplants, Ericas, Ferns, Aquatics, etc., free on application.

A. M. C. JONGKINDT CONINCK,

Royal Tottenham Nurseries,

DEDEMSVAART, NETHERLANDS.

Chicago.

Mr. N. Singler, of Washington Heights, has no further use for gardeners who know it all. He now mourns the fact that he has been unable to cut a single violet from a house containing 2,500 plants, simply because he placed the plants in charge of a "know all" who ran things contrary to his usual methods. Nicholas generally gets his violets into the house very early, before disease has attacked them in the open ground, but his smart gardener insisted that according to the improved system they should remain in the open ground until October. Nicholas in one of his few weak moments yielded to the alleged superior wisdom of the walking encyclopedia of knowledge who had placed said wisdom—including some additional service in the shape of manual labor—in his service for a moderate monthly stipend, and the plants were not housed until October. Again there was a difference of opinion, for the man being of abstemious habits himself felt that the violets should follow a good example, and he barely wet their parched throats, in fact the poor plants barely survived the drought which met them under glass. Nicholas kicked but in another weak moment again yielded. Result: An immense crop of violet disease and nary a flower! Not even a measly imitation of one.

But Nicholas didn't get left on his carnations. He has been cutting lots of them, good, long stemmed flowers, and they have all sold at a good price. Silver Spray is his best white. With him this variety produces splendid flowers, and with remarkable regularity. He don't get the immense crops at times as with some other sorts, but the plants keep steadily at work and give him a pretty regular supply of generous quantity and fine quality.

He swears by Tidal Wave as a pink sort. Says it is the best pink carnation ever introduced and the most profitable sort he has ever grown.

He thinks he has in the past propagated his plants for the following season too late, and as he proposes to be good and early from now on, he has already propagated his stock for next season. He finds that unless propagated early he can not be sure of getting in the first heavy crop in time for the holiday season.

Geo. Wittbold says he has 40,000 young palms of the best trade sorts coming on. He will offer them in the Florist as soon as in shape for shipping. He states that he sold no less than 38,000 young ferns through his last adv. in the Florist. Pretty good evidence of the rapidly increasing popularity of these plants, for a few years ago they cut but little figure with the commercial florist in the west.

HOLIDAY ORDERS

—FOR—

FANCY BASKETS, POT HOLDERS,
PALM STANDS, POT COVERS,
IMMORTELLES, DOVES,
MEMORIAL DESIGNS of Metal Foilage
and Porcelain Flowers, Etc., Etc.,

SHOULD BE SENT NOW TO INSURE
PROMPT DELIVERY.

Our Illustrated Catalogue giving full information mailed free to the trade on application.

AUGUST RÖLKER & SONS,
136 West 24th Street,
NEW YORK, STATION E.



Diagram Showing
how perfect drainage
and ventilation
is secured.



Parties who have used this pot say that hereafter they will use no other.

Patented and Manufactured only by

THE WHILLDIN POTTERY CO., 713 & 715
WHARTON STREET, Philadelphia, Pa.

Agent for the New England States, M. J. McCARTHY, 27 Otis St., Somerville, Mass.

STANDARD FLOWER POTS

On and after November 1 these prices will take effect on the following sizes.
Terms cash with order.

Size.	Price of 1000.	No. in crate.	Price per crate.
1 1/2 in	\$2 25	2000	\$4 50
2 "	2 70	1500	4 00
2 1/2 "	3 00	1200	3 60
2 3/4 "	3 20	1000	3 20
3 "	4 20	720	3 00
3 1/2 "	6 30	575	3 60
4 "	7 30	407	3 00

We want your trade. We guarantee satisfaction. Shipping facilities unequalled

SIPPLE, DOPPEL & CO.,
SYRACUSE, N. Y.

FLORAL DESIGNS.

The help for Cut Flower workers.
162 pages, colored plates. Edition
nearly exhausted; speak quick.
Address (with \$3.50 for the book)

J. HORACE McFARLAND,
Box 655, HARRISBURG, PA.

CATALOGUES.

FLORISTS
AND
SEEDSMEN
write to

The Aldine Printing Works, Cincinnati, O.,
for samples and prices before ordering
elsewhere.

(Mention The American Florist.)



**I AM ON TIME
THIS YEAR.**

Write quick for January
Catalogues, better than
ever. I do printing for
Nurserymen, Seedsmen
and Florists. Write
about it.

**For Sale
TO CASH BUYER**

— CONTENTS OF —

Three Greenhouses,

Etc., with Business as it stands,
on account of sickness.

WM. DIHM,
221 Union Ave., MT. VERNON, N. Y.

Order Now

A Copy of Our New

TRADE DIRECTORY

PRICE, \$2.00.

AMERICAN FLORIST CO., 54 La Salle St., Chicago.

CARD.

The only pot with Patent Perfect
Drainage and Ventilated Bottom.

These pots are all Standard sizes
and shapes, the same that carried
out of Boston the ONLY

First-Class Certificate of Merit,
and also HIGHLY COMMENDED by the
New Jersey Horticultural Society at their
Chrysanthemum Exhibition, at Orange, N.
J., November 4th, 1890.

It will be to your advantage to send
for prices before purchasing elsewhere.



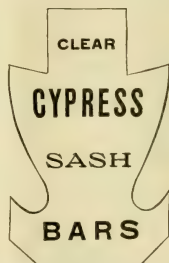
ALL SIZES OF SINGLE AND DOUBLE THICK

GLASS FOR GREENHOUSES.

ALL GLAZIERS' SUPPLIES.

Write for Latest Prices.

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PRESS
GREENHOUSE
MATERIAL



JOHN L. DIEZ & CO.
530 North Halsted Street.
CHICAGO, ILL.

(Mention American Florist)

HOT
BED
AND
VENTILATING
SASH

EVERY FLORIST SHOULD HAVE A COPY OF

OUR TRADE DIRECTORY.

AMERICAN FLORIST CO., 54 La Salle St., CHICAGO

S. A. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

Many of our friends agreeing with us that the award on Standard Pots at our late Exhibition was an unjust one, we shall use the advertising columns of the *AMERICAN FLORIST* to state our side of the question.

We asked the Executive Committee to give us an impartial committee of award. The following propositions should convince anyone whether **WE FEEL** that we have had such a Committee.

The following is the text of the matter in question, taken from the official programme:

"Manufacturers of FLOWER POTS are notified that a Certificate of highest merit will be awarded to that display of Pots shown at this exhibition, which most nearly approaches the Standard. Such displays shall consist of not less than one dozen of each size, made from working molds and not turned down."

One member of the Committee of Award said that we were not entitled to any award because we exhibited but fifteen sizes, while others exhibited seventeen, and that seventeen cuts were represented on a white sheet of Standard Pots. We fail to see that the award was offered for any specific number of sizes, but that twelve of each size should be presented. **A MUCH MORE IMPORTANT PART OF THE COMMITTEE'S ANNOUNCEMENT** was that the pots should be **MADE FROM WORKING MOLDS AND NOT TURNED DOWN**. We do not hesitate to make this public statement that the Flower Pots to which was awarded the Certificate of highest merit were **VERY MANY** of them **EITHER GROUND, FILED, TURNED or SAND-PAPERED** to size, and for that reason alone were not entitled even to a measurement by the Committee of Award.

WE WISH TO MAKE TWO PROPOSITIONS.

First. We will put up **\$1,000 in Cash** and submit the same pots exhibited at the late Exhibition against the pots exhibited by our competitor, and leave it to an impartial committee of three, and if our pots do not come the nearest to the requirements, we will present the \$1,000 to the fund of the Society of American Florists.

Second. We will put up **\$2,000 in Cash** and produce 500 pots of each size from 1 $\frac{1}{2}$ -inch to 7-inch inclusive, and 250 pots each from 8-inch to 12-inch inclusive, making 7,250 pieces, made from the same moulds in which the pots we exhibited were made, and all shall be of the proper thickness in all respects, against an equal number of pots made from the same moulds that produced the pots receiving the award, and if an impartial committee do not give us the award we will present the money and the pots to the Society of American Florists for an experiment station. And if we are allowed to choose one of the committee of three, we will select our honorable Treasurer Mr. M. A. Hunt, of Terre Haute, Ind.

A. H. HEWS & CO., North Cambridge, Mass.

S. A. F. Attention

Our defeated competitor in "Standard" Flower Pot contest at the Boston meeting, for the **Certificate of Highest Merit**, reflects on the members of the Committee of Award as not being impartial in their decision. The members of that Committee were M. A. Hunt, Terre Haute, Ind., Chas. Henderson, of the firm of Peter Henderson & Co., New York, and Wm. K. Harris, Philadelphia, Pa. No fairer or more competent committee could be selected from the members of the S. A. F., and as far as diligent inquiry reveals, their decision meets with the approval of everyone excepting A. H. Hews & Co.

The official programme gave notice that the Certificate would be awarded to the display "which most nearly approaches the 'Standard,' such display shall consist of not less than one dozen of each size, made from working molds and not turned down." The sheet with drawings of the pots (which was gotten up by A. H. Hews & Co., under the instructions of the Committee of S. A. F. and sent to the different potters for their guidance) shows 17 sizes, and the number we exhibited; one dozen of each, as required. In regard to the statement published by A. H. Hews & Co., that "very many" of our pots were **"either ground, filed, turned or sand-papered to size,"** we wish to distinctly say that this is **FALSE**. The pots we exhibited for the Certificate were made exactly as we make them for our customers, and were not altered in any way whatever; in fact it is impossible to alter the inside measurement after a pot is once made; a mold that will make one pot correct will make any number (until the mold wears out) exactly the same. In reference to the absurd "propositions" of Messrs. A. H. Hews & Co., we decline to be a party to the proposed exhibitions as it would be a gross insult to the honorable gentlemen of the committee, who, after giving their time and labor to the society, are at least entitled to common courtesy.

As the report of the proceedings of the Convention at Boston, Mass., is now published; read carefully the reports of the Committee on Standard Flower Pots on pages 100 and XIV.

THE WHILLDIN POTTERY CO.,
713 & 715 Wharton St., PHILADELPHIA PA.

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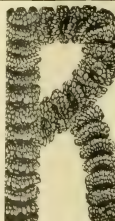
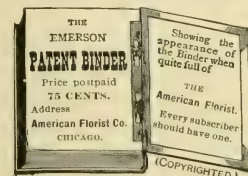


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No. 135

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THE SUPPLY of flowers for Christmas was unusually large this season. Undoubtedly the mild weather was a decided factor in bringing out the heavy supply, but the large increase in glass devoted to the production of cut flowers unquestionably played an important part. It would appear that production, even for the holidays, now equals the demand, at living prices, and in some cases exceeds the demand at paying figures. Certainly not for a long time have first class flowers sold so cheaply at the holidays. Some complain of a decrease in sales, though it is probable that the same, or a larger number of flowers were sold, but at lower prices.

Color.

BY H. H. BATTLES.

[CONCLUDED.]

On examining the list of scarlet we find that the term has been used two hundred and fifty-three times with sixty-seven variations. How can these many terms be simplified?

Scarlet is the color between crimson and orange, the most brilliant red seen in flowers, more brilliant than vermilion, no purple or blue in its composition.

"Brilliant Scarlet," we know of but two circumstances when it is more brilliant than scarlet; when the flower has lustre, and when the direct rays of the sun shine on that lustre.

"Orange scarlet" is a term well chosen and would represent the color which is so difficult to determine between scarlet and orange, hardly a light scarlet or a dark orange, when this uncertainty arises the term can generally be used with safety.

"Crimson scarlet" bears the same relation to crimson as orange scarlet does to orange.

"Rich Scarlet," see Brilliant.
"Rich scarlet approaching crimson." We should suppose that the words dark or very dark scarlet would express the shade intended.

"Deep scarlet," see rich scarlet.

"Dazzling scarlet," see brilliant.

"Brilliant crimson scarlet," see brilliant and crimson scarlet.

"Fiery scarlet," see brilliant scarlet.

"Intense," see brilliant scarlet.

"Rich velvety scarlet." We suppose that the word velvety refers to the texture of the flower, as the Jacquemot rose is velvety compared to the Gontier.

"Light scarlet" is a term well chosen, and approaches orange by the addition of white or yellow.

"Rosy scarlet." The term rose as applied to color generally indicates that blue has been added to some tone or shade of red. The color of the La France is, I think, the popular notion of "Rose color." Now, as blue can be distinctly seen in the La France, and as blue mixed with red or pink makes a shade of purple or possibly lavender, let us discard the term rose or rosy and say light lavender pink, or very light purplish pink. In the dry goods business, and consequently among the ladies, there is a well defined hue called cherry, which has a "dash" of purple in its composition. This we believe to be synonymous with the "Rosy scarlet" in our list, both of which it would be well to discard for the terms "Purplish scarlet" or "Light purplish scarlet," etc.

"Vivid scarlet," see brilliant.

"Dark crimson scarlet," see crimson scarlet.

"Very bright scarlet," see brilliant.

"Dark scarlet," well chosen.

"Bright crimson scarlet," see crimson scarlet plus brilliant.

"Bright shining scarlet," see brilliant.

"Maroon scarlet." We should suppose that the author wished to express a broken shade of scarlet, possibly the word "dull" would express the idea.

"Vermilion scarlet" could be expressed by the term dark or very dark scarlet.

"Dazzling vermilion scarlet" could be called brilliant dark scarlet.

All words, such as dazzling, fiery, vivid, glowing, bright, fiery, shining, intense glowing, etc., could be expressed by the words brilliant or lustrous.

PURPLE.

"Purple," well chosen.

"Violet purple," well chosen.

"Rosy purple," reddish purple or light reddish purple.

"Dark purple," correct.

"Royal purple," dark bluish purple.

"Rich purple," dark blue (or velvety like pansies).

"Light purple," correct.

"Deep purple," dark or very dark.

"Rich violet purple," bluish purple.

"Reddish purple," correct.

"Brownish purple," correct (or dull purple).

"Bronzy purple," light purple or brilliant purple.

"Bluish purple," correct.

"Lilac purple," light reddish purple.

"Beautiful purple," harmless. We think all clear tones of purple are beautiful, especially among flowers.

"Brilliant purple," correct.

"Crimson purple," not bad (possibly reddish purple).

"Deep rich purple," dark, or very dark purple.

"Dark velvety purple," velvety we suppose refers to the texture of the flower, possibly dark purple pansies were referred to.

"Dark vermilion purple," dark reddish purple.

"Blackish purple," possibly the color we see in pansies.

In trying to give a clear idea of color we should advise the comparing of certain flowers with some of the most popular flowers at that time, for instance, without having samples before us, we should say that a light Grace Wilder carnation was the ideal pink; the La France rose, a very light purplish pink, the pink seen in Grace Wilder with considerable purple in its composition for the outside of the petals, while the inside is a pinkish white. This rose is very much admired by artists for the graceful curves that the petals assume as it develops. The odor is very much like the Jacquemot, but more delicate and refined.

The Catherine Mermet, a light pink with no purple but a "dash" of yellow, a beautiful shaped rose rather longer bud and more symmetrical than the La France, a decided tea odor.

In describing the color of flowers it is

well to consider which is the best light, no artificial light compares favorably with "daylight." It is impossible to get an accurate notion of color by gas light. Direct sun light is also deceiving. How often have we seen translucent flowers in the garden with the sun's rays streaming on them, how very brilliant they appear, the same flowers in deep shadows or in the house seem dull by comparison. Therefore it is well when we are anxious to be as accurate as possible, to select clear daylight, but not in the direct sun light. All substances with lustrous or polished surfaces reflect more light, consequently lustrous flowers, polished petals, silks and plushes with their beautiful sheen are capable of more changes of tints, especially in sunshine and shadow than "opaque" bodies which are without lustre, polish or sheen. This lustre might be denoted by the term "brilliant" as the sunflower is yellow, while the buttercup is brilliant yellow.

In speaking of broken hues, A. H. Church says: "We now pass on to consider the constitution of those hues which contain grey. They may be considered as primary and secondary colors of low luminosity mingled with white. When speaking of pigments we regard them as containing both black and white. They constitute "broken" (or dulled) tones of primaries and secondaries. It is not easy to name them in a way that will prove generally acceptable, but the following list, in which the order of the chromatic circle is followed, may prove of some service:

Broken red (crimson)	Maroon
Broken orange	Russet
Broken orange yellow	Brown
Broken yellow	Citrine
Broken yellow green	Olive
Broken green	Sage
Broken blue green	Bluish Sage
Broken purple	Plum
Broken blue	Slate."

The colors here named have been identified so long with the popular terms that it would be well to retain their names at the expense of the logic.

Church referring to color blindness says: "It is certain that the vast majority of persons when viewing colored lights or colored objects, experience identical color sensations. They will arrange and classify tints and shades of all distinct hues in the same order and in the same groups. Such mistakes as they will make will be attributable either to imperfect training and inexperience, or to a slight lack of sensitiveness to colors of very small brightness, or to faulty nomenclature. There is, then, a normal or standard color sensation. But there are numerous cases of abnormal or imperfect color vision, ranging considerably in degree and varying occasionally in kind; they occur much more frequently in men than in women. This subject was investigated by Dr. John Dalton, and subsequently by Dr. G. Wilson, of Edinburgh. Maxwell made a series of instructive experiments upon one of his pupils who was partially color-blind. In France during 1873-5 Dr. Fèvre found that over 9 per cent of the railway officials of all ranks (1,050 in number) whom he examined were color-blind. Prof. Holmgren in 1876 ascertained the percentage to be nearly 5 among the officials (266) of the Upsala Grefte line in Sweden. Mr. F. Galton found among the visitors to the International Health Exhibition in London, of 1884, that out of many hundred persons examined a very large number of males and a very small number of females had a more or less imperfect vision as to

distinctions of color, the numbers corresponding pretty nearly to the percentage which previous observers had found. According to the report of the Penna. R. R. it was ascertained that about 4 per cent of the men examined were color-blind.

"Color blind persons, of the large group we have been describing, discern no difference of hue, but only a difference of tone, between the flowers of a scarlet geranium and its leaves; between red and green cloth; between a gravel path, a grassy lawn and autumn leaves. They will sort skeins of variously colored wools in the strangest way, interposing red and yellow amongst the green hues, and mingling blues and violets together. There is, however, a very simple way in which it is possible for such persons to correct in a measure such erroneous impressions. When they are in doubt as to whether they are choosing a piece of scarlet cloth as a match for a piece of green, they have but to view both through a piece of green glass, or through a piece of rich red glass. The scarlet cloth will seem to them nearly black, and the green cloth green through the green glass, while through the red glass the green will appear nearly black and the red cloth green."

At the present time there is no accepted nomenclature of color either among the men who treat the subject of light and color as a science, or among naturalists who have long felt the want of such a system in order to intelligently describe their specimens. Among trades people the same difficulty exists. Sample cards and books are issued, naming and numbering the different hues, shades and tints. Each card has a peculiarity of its own, but more often than not words are used that do not in the least indicate the color intended to be described.

Winsor and Newton are well known manufacturers of artists' pigments. It would be most natural to look to them for advanced ideas on this subject. Artists who have become familiar with their nomenclature find no difficulty in identifying the several colors, but to people who have not used them, "Hoopes' Green Number Two," "Burnt Lake," "French Blue" and similar names express but little.

A. H. Church says "Many attempts have been made to classify colors, including under that designation not only all hues, with their shades, tints and broken tints, but also white—a balanced or neutralized compound of two or more hues, and black—the correlative of light and color.

"The real difficulty begins when we attempt the classification of hues, that is of colors proper. Where can we find standards of comparison for all colors in respect of three constants of color—hue, purity, luminosity?

"The difficulties in the way of classifying colors are augmented by the very number of hues with their shades and tints possessed of varying degrees of luminosity, which the human eye is competent to distinguish. From experiments, in which small quantities of one-colored light were added to another or to white, Aubert calculated that fractional quantities of light, varying from 1-100 to 1-300 produced recognized differences, and that a thousand hues could be distinguished in the solar spectrum. Add to these the hues produced by gradual increments or decrements in luminosity and the whole series of purples, and we reach a grand total of colors which must be measured by hundreds of thousands."

"Quite recently another attempt at naming and classifying colors has been

made by R. Ridgway. The small volume which he has prepared is intended primarily for the use of naturalists, but it possesses one feature at least which is likely to be appreciated by many persons interested in decorative and pictorial art. This is a comparative vocabulary of color names, giving in parallel columns on nine double pages, the equivalent words in English, Latin, German, French, Spanish, Italian and Norwegian. The most striking characteristic of the book is, however, a series of colored plates. Each of these plates has been planned with skill and care, and executed in water color pigments of considerable or complete stability. There will certainly be diversity of opinion as to the justness of the application of many of the names to the actual colors given. But to name tints, hues and shades, instead of merely numbering them, constitutes a step in the right direction. Until an International Standard-Color Conference of artists and scientists has finally agreed upon the names given to a couple of hundred different hues, reproduced in enamel and preserved in color, like our standards of weight and measure, we must be grateful for any attempt, even though it be but partially successful, in the way of a consistent and complete nomenclature. As an example of Mr. Ridgway's sets of color-names we may cite those which he assigns to twenty hues, lying between red and blue, and belonging to the group of purples:

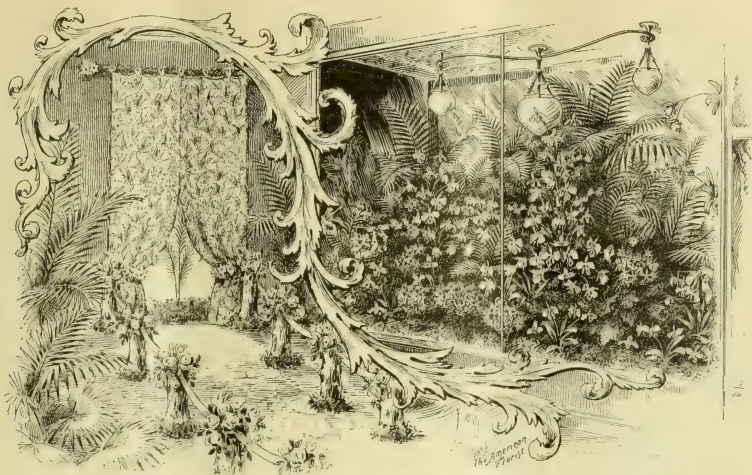
1. Prune	10. Phlox
2. Dahlia	11. Pomegranate
3. Auricula	12. Mauve
4. Pansy	13. Magenta
5. Indian Purple	14. Wine-Purple
6. Royal Purple	15. Lavender
7. Aster	16. Solferino
8. Maroon	17. Heliotrope
9. Violet	18. Lilac
	19. Rose.

"The mere inspection of this list suffices to show that although there may be a judicious selection of color-names here, there is nothing approaching to a scientific classification of them."

One of the most famous art critics in the country was asked where the best nomenclature of color could be found. He answered from the manufacturers' list of artists' pigments.

A very eminent professor in one of our leading colleges refers all persons in search of knowledge on the subject to a famous firm of silk manufacturers, who issued a very beautiful sample card. Among the terms used we find: London smoke, Japanese, raisin, old rose, terra cotta, crushed strawberry, ashes of roses, sultan, new brown, new green, tea rose, new tan, Bismark, etc. Many of these terms are created for that fickle dame, fashion, and like many other of her whims will have but a short life. Many of the terms used are well chosen, and their sample card shows a marked improvement over many of their competitors.

In the early stages of our researches we were glad to learn that Harper & Brothers had published a chart on color for "School and Family" use by Marcus Wilson and N. A. Calkins. After procuring one of these charts we found that the names differed so materially from the impressions that had been formed on our minds, that we took every means of ascertaining the popular idea of the most common colors. In passing it is but justice to the gentlemen who issued the color chart, to say that in all probability the samples had faded very much and hardly expressed their views. Still it was



WEDDING DECORATION AND WINDOW ARRANGEMENT.

this difference of opinion that caused us to procure samples of silks, cotton, papers, pigments, etc., etc., and in every case where it was possible we got the best men in the best establishments to give us their personal judgment as to the naming of the colors. And how they differed!

Until the proper authorities determine upon the names of several hundred hues, and as Mr. Church suggests, reproduce them in enamel the question will not be settled. But in one's own business there is room for marked improvement and within the reach of all who have the desire. The simplest way is by far the best.

Would it not be well in selecting adjuncts with which to describe shade and tints to use a list like the following. Very Dark, Dark, Light, Very Light, Pale and Faint, Brilliant, Dull and the names of colors that are detected in their composition. We will endeavor to describe a few uncertain colors as they come to our mind.

Lavender,	{The faintest tint of purple.
Lilac,	{The faintest tint of reddish purple.
Light purple,	Violet.
Light reddish purple,	Heliotrope.
Dark bluish purple,	Royal purple.
Reddish purple,	Magenta.
Maroon,	Garnet.
Crimson,	Cardinal red.
Purplish scarlet	Cherry.
Light purplish scarlet	{Light cherry.
	{Red rose.
	{Geranium red.
Lavender pink,	Rose pink.
	{Dark rose pink.
Dark lavender pink,	Geranium pink.
	{Peach blossom pink.
Orange,	Cadmium.
Light sulphur yellow,	Light lemon yellow.
Light sulphur yellow,	Primrose yellow.
Dark sulphur yellow,	Lemon yellow.
	{Citron yellow.
Yellowish green,	Absinthe.

Yellowish white,

Reddish brown,

{Cream white.

{Ivory white.

{Mahogany.

{Terra cotta.

We cannot imagine what colors are meant by such terms as: Deep orange blue (possibly some shade of green), salmon rose, fine salmon rose, transparent salmon rose, brilliant salmon rose, bright salmon rose, clear citron rose, exquisite salmon rose, light salmon rose, orange rose.

The term rose generally indicates that blue has been added to some tone or shade of red, which gives it a purplish or light purplish cast. What colors the authors intended to describe by the addition of salmon, yellow and orange to a purplish pink (rose) we cannot understand.

We have just received a little book, "Color in the School Rooms" published by Milton Bradley Co., which will be welcomed by all who are interested in the subject of color. The following we quote, which will give the best idea of their nomenclature:

The samples are designated by symbols in which R. is red, O. orange, Y. yellow, G. green, B. blue, V. violet, T. tint, S. shade. P. is introduced for convenience, although it should be composed of R. and B." As these are in the full line two tints and two shades of each standard the numbers 1 and 2 are used. Thus "R. T. 1" is red tint No. 1, "R. S. 2" is red shade No. 2, "Y. G. S.", yellow green shade, etc.

While we endorse this book most heartily and know that it will awaken a great interest in color and the harmonious arrangements of color, we do not feel that this system of naming will help us in attempting to intelligently name the colors of flowers. In their list we find no maroon, no crimson, no scarlet, no pink, etc., all to be discarded for the unsatisfactory

terms of red with various tints and shades to be known by numbers.

The more we read and the more we think upon the subject, more firmly are we convinced that there is at present a fairly well defined popular nomenclature of color; and until there is a far better naming of colors than has yet been offered, we deem it advisable to conform to the popular notion. At the first glance it does seem ridiculous to admit that goblin blue, Nile green, Nile blue, salmon, buff, etc., are wise terms to use, but what terms can we use that will be so well understood? We have as far as possible in our list, endeavored to find synonyms for many of such terms, but we do not hope that they will entirely take the place of well known terms. Such terms will not go until something much better and permanent is given in exchange. And there will be no revolution in the popular nomenclature of color until the colors and names are agreed upon by an "International Standard Color Conference" and the colors and names that they agree upon made permanent by being reproduced in enamel.

Wedding Decoration and Window Arrangement.

At the left in the accompanying illustration is shown one of the details of a handsome wedding decoration recently arranged by Thorley of New York. The doors were all wainscoted with flowers, which is quite the fashion nowadays, and in the back parlor there was a large display of orchids. Only a portion of the front parlor is shown in the picture, where there is a white satin curtain trimmed with lilies of the valley, before which the bridal pair stood when they were married. There were a number of palms on each side of this curtain, and

the path that led up to it was made of white satin ribbon held up here and there by standards of pottery with bouquets on top and roses running down the sides.

On the right hand of the floral decoration is Thorley's store window which occupied 20 feet on Broadway. This is filled with a large bank of large and small palms and ferns. On either side of this center is a large group of orchids. Cattleyas, cyripediums, odontoglossums and a few oncidiums. There were bunches of cattleyas and lillies placed between and at the sides. Several growing plants of the same were in the foreground, and on the side facings of the window. Several specimens of Japanese oak were also shown among this fine display of palms and orchids. F. A. B.



Notes From Staten Island.

BY WM. FALCONER.

Some of the finest chrysanthemum flowers I have ever seen have been grown and exhibited by Mr. Wm. Tricker, of Dorgan Hills, Staten Island. Some idea of Mr. Tricker's success as a chrysanthemum grower may be inferred from the fact that at the exhibition of the New Jersey Horticultural Society at Orange some weeks ago he was awarded first premium for 50 Japanese flowers, first for 12 and first for 6; also first for 12 Chinese and first for 6; first for 6 anemone flowered and first for 6 pompons. At the Philadelphia show he was awarded first premium for 100 blooms, one of a kind, and first for 36 blooms, one of a kind, also first for 36 blooms, three of a kind. At the Philadelphia shows too, within the past two years he had been the recipient of two gold medals for chrysanthemum flowers, and a year ago of the Fitcher medal at Orange, N. J.

Being in New York the other day and having a little while to spare I went down to Dorgan Hills—takes about 40 minutes from New York—to see how Mr. Tricker grew such splendid blossoms.

Mr. Tricker is an Englishman, genial and unpretentious and a great enthusiast in the matter of chrysanthemums, and makes these and aquatics a specialty.

His pot plants were all single stemmed summer struck cuttings. These cuttings were put in in the propagating bench last June and as soon as rooted potted off into 2½-inch pots, then directly into 6-inch pots. As soon as they had taken good hold in these they were plunged out of doors in a sheltered but open border, and to the brim of the pots, and all over the ground and the surface of the pots a mulching of rotted manure had been spread. This mulching keeps the ground cool and moist, and also acts as a stimulant.

The main point in growing good chrysanthemums is to begin with strong healthy cuttings, and from the moment they are rooted keep them growing unchecked till the flowers are cut.

His main crop of plants had been raised from March struck cuttings and grown on in pots till May when he planted them

out in beds within a span skeleton frame greenhouse in a sheltered place. This framework is 11 feet wide, fully 6 feet high on the sides and 9 feet high to the ridge. The sides are open all around, and to cover the top the sashes from the spring horded beds and cold frames are used. And the sashes are put on in May and kept on all summer. Abundant ventilation is afforded by the sides being open all around, and the roof saves the plants from drenching rains in summer and cold rains in fall, which is of great benefit to the plants, especially in preserving good foliage. Six rows of plants are set out in the bed, three on each side, two feet by two feet apart, and there is a space about three feet wide in the middle. Each plant is restricted to three stems, and these are allowed to grow as high as they will. Three tall cane stakes are given to each plant and fastened to three wires—one above the other and two feet apart, wire fence fashion—that run along each row of plants. This renders summer tying very simple. When unfavorable fall weather comes in the sides of this frame house can be filled in with other sashes or a canvas curtain can be dropped down over them. Here Mr. Tricker cuts his finest flowers.

Mulching.—The ground all about these plants is also mulched with rotted manure in summer, and chiefly to keep the earth cool and preserve the roots—for chrysanthemums are near-the-surface rooting plants—from the drying influences of wind and sunshine.

Stimulants. In addition to the extra nutriment afforded by the mulchings Mr. Tricker freely with diluted liquid manure from the barnyard tanks. And he waters freely from the hose in summer whenever needed.

Border plants. In a wide border against a high board fence an immense number of chrysanthemums are grown. These are summer struck and also there are spring struck plants kept dwarf by early pinching. All are planted out, mulched and treated much in the same way as those under the framework, but they are left open all summer. On the approach of fall weather some light pine strips, 9 or 10 feet apart and fastened at one end to the fence at the back and at the other to 4 feet high posts inserted along the front, and so as to support cloth sheeting on rollers. In fine weather the sheeting is rolled up at night and in unfavorable weather it is let down.

The sheeting used is a medium grade of the plant protecting cloth, that is the oiled cloth so much used nowadays for make shift sashes in spring.

In frames. Mr. Tricker also had a large number of midsummer struck plants planted out in frames which as fall came on were raised to 3-boards high at back and 2-boards high at front and covered with sashes, and here he got many fine and late blossoms.

Leaf disease. Starvation, exposure of the surface roots, over crowding, injury to the roots by too much rain or water, and a good many other unfavorable conditions cause leaf spot. Last year Mr. T. used sulphur and soapy water, spraying the plants with the solution, but he couldn't say that it did much good, any way he didn't like the unsightly sediment it left upon the foliage. This year he used "Grape Dust" instead, applying it with a bellows, and he assured me it is the best and most effectual remedy or preventive of chrysanthemum leaf disease he has ever tried.

When he propagates his stock. He is now hard at work raising young plants,

but these are for sale on demand; he never strikes his own prize-flower stock before March, or his one-stemmed pot plants before June.

In summing up Mr. Tricker's practice we find that all of his plants except those in 6-inch pots from June cuttings, have been planted out in beds, staked early in life, disbudded both as regards flowers and side shoots, mulched with rotted manure and liberally fed and watered, and effectual provision is made early in the fall to protect them from cold or heavy rains, high winds, or injurious weather of any kind.

Among a lengthy list of favorite kinds given me by Mr. Tricker are: White—Avalanche, Eynsford White; Boile de Lyon, immense, full double; Ivory, early; Mlle. A. Delaux, not very large but good; Mrs. J. Wright, tall growing; Stanstead White, The Bride, Mrs. Bullock, Miss Anna Hartshorn, L. Canning, fine but doesn't stand well when cut; Miss Humphreys, small but late; Robert Bottomly and Miss Minnie Wanamaker. Among yellow—H. E. Widener, Mrs. W. K. Harris, Sunflower, but weak on stalk; Glorioso, Grandiflorum, W. H. Lincoln, Coronet, Mr. H. Cannell, Mrs. Winthrop Sargent, Kioto, E. G. Hill and Peerless. Among others—Lilian B. Bird, V. H. Hallock, Syringa, Excellent, Miss Mary Wheeler, A'cyon, T. C. Price, Mrs. Fottler, Miss Esmeralda, Elkhorn, Mrs. Irving Clark, Source d'Or, S. B. Dana, Mrs. Falconer-Jameson, Ramona, Mrs. Andrew Carnegie, Comte de Germany, Mrs. Pres. Harrison, Mrs. E. W. Clark, Ada Spaulding, etc.

House of Christmas Eve Chrysanthemums.

The illustration is from a photograph taken December 18 of a house of Christmas Eve chrysanthemums at Mr. H. E. Chitty's, Paterson, N. J., and shows the Christmas crop of bloom. At the left is seen a side bed of Lamborn carnations.

The Chrysanthemum Bee-fly (page 258).

No, Mr. Rowe, I won't do it. Not one word of what I wrote, page 222, about this dirty creature will I retract or modify. Before I abused the little wretch publicly I had read all of the articles to which you have called our attention, and more, and had corresponded on the subject with our eminent state entomologist.

You tell us that from eighty seedlings raised from Mrs. F. Thompson chrysanthemum whose pollination had been effected by this fly you obtained 17 varieties all better than the parent. This is extraordinary and surpasses anything in this line I ever heard of before. And then you tell us that from some shop seed you bought you raised a lot of seedlings that weren't worth shucks. But wasn't the pollination in their case too effected by the bee-fly?

Within the last seven years I have saved seed and raised and flowered hundreds upon hundreds of seedlings, and I deeply regret to have to admit that I have not secured from among all my hundreds, 17 that are better than Mrs. F. Thompson's. And during all of this time this bee-fly has worked for me like a little Trojan in the fertilization of my flowers, and it had good material to work from—over 200 of the leading varieties. But do not infer from this that I deprecate the effectiveness of its work in fertilizing the flowers, the trouble is it works too much; it works more among single and partly single flowers than among full double



MR. CHITTY'S HOUSE OF CHRISTMAS EVE CHRYSANTHEMUMS. PHOTOGRAPHED DEC. 18

ones and in this way impregnates the good flowers with the pollen of the indifferent or single ones, or mixes up all the classes of chrysanthemums together. Flowers that are shorn of their petals and left exposed in the open greenhouse even if touched up every forenoon with the camel hair pencil cannot be said to be hand-fertilized, for they are also under the influence of the bee-fly and other natural means of diffusing pollen.

My objection to this fly is its filthy habits. It bespoils the flowers it infests, and the whiter the blossoms are the more conspicuous become the excreta spots it leaves upon them.

W. F.

Ferns for Exhibition.

Doubtless one of the best methods of popularizing any given class of plants is through the medium of public exhibitions, and it is therefore to the interest of the general florist to grow a few attractive specimens for this purpose.

And if the florist in question be of a calculating turn of mind he can charge the space so occupied to advertising, as the advertising ability of a nicely arranged group of well grown plants is unquestioned and gives the general public just the kind of information they are likely to need regarding the decorative effect of certain plants.

It will therefore be readily seen that the space used in growing exhibition plants is not space wasted, not merely on account of the money premiums that may be secured, though these in many cases

are not inconsiderable, but also from the fact that trade may thus be stimulated.

Of course this exhibition business may be overdone, so as to interfere with the regular stock of the establishment, but the amount of space devoted to this purpose must be decided in accordance with the size of the establishment and the needs of the locality, and must naturally be left to the judgment of each individual. And among the plants thus used with very happy effect are a number of the stronger growing ferns, being those of such character that they may be grown among a general collection of foliage plants with a reasonable degree of success.

Prominent among these may be mentioned a few distinct types to be found in the Maidenhairs, beginning with *Adiantum trapeziforme*, this being one of the best for our purpose and also very easy to grow. As the fronds of this variety are frequently three feet in height and with very large pinnules of bright green it makes a most effective specimen.

A. formosum is another bold growing sort, and has the additional merit of doing well in quite a cool house, and the fronds stand very well when cut.

A. intermedium, or *A. Brasiliense* as it is also called, may too be classed among the useful ferns, having dark green bipinnate fronds about eighteen inches in height, and very freely produced. This variety is also very pretty in a small state for ferneries, but unfortunately cannot be induced to grow rapidly during the winter.

A good plant of *A. cuneatum* is always a thing of beauty, and should be included in every collection however small, and if proper accommodations can be given it a specimen of *A. Farleyense* should be counted in, but it should be understood that the latter variety is not included among those that may be grown under the most ordinary conditions, for though not extraordinarily difficult to cultivate yet the "Queen of the Maidenhairs" is somewhat more capricious than the varieties previously referred to.

Some of the nephrolepis should also be included, as these handsome ferns are of rapid growth and easily propagated. Among the older sorts *N. davalloides* fureans is one the most ornamental, its light green, crested fronds frequently growing four to five feet in length, while the well-known *N. exaltata* is a good second, and is one of the most hardy of the genus.

Of the later introductions in this genus, *N. rufescens trippinatifida* is the gem, its elegant plumose fronds being finely cut and crested and make it decidedly the finest of the genus.

The *davallias* also include many fine exhibition sorts, among which may be specially noted *D. Filixensis* and its variety *plumosa*, the latter being finer cut and rather more graceful than the type, and *D. pallida*, (probably better known as *D. Mooreana*) this being one of the strongest growers in the genus, the fronds sometimes attaining a length of four to five feet. the widely known *D. tenuifolia stricta* also makes a pretty show plant.

though naturally much more dwarf than the preceding.

Some of the platyceriums should of course be included in the collection for the sake of variety in form, though the quaint beauty of these plants entitles them to a place anyway, and a well-grown plant of the old *P. alcicornis* is very effective, basket cultivation showing off its beauties to good advantage. *P. alcicornis* major is a great improvement on the preceding, and *P. grande*, and *P. Hilli* are both very attractive.

Dennstedtia cicutaria, (also known as *Sitobolium cicutarium* and *Dicksonia cicutaria*) is another useful fern of strong growth, and providing it is not grown in too close an atmosphere may be used in an occasional decoration, and with good effect.

One or two *blechnums*, such as *B. Brasilense* or *B. corcovadense crispum* will be found to add much to such a display, while some of the *polystichums* such as *P. aristatum variegatum* and *P. capense* are among the hardiest of greenhouse ferns.

If proper accommodations can be given them, there are few ferns superior to the *gleichenias*, but it should be kept in mind that most species of this noble genus do best in a night temperature of 45° and as they are naturally shallow-rooters should not be given too great a depth of soil, but abundant drainage. W. H. TAPLIN.

Funkias.

These are hardly herbaceous perennials, natives of Japan and other parts of N. E. Asia, and very desirable garden plants. The White Day Lily (*F. grandiflora*) is very well known, and, indeed, it is the most important of the family. But as the appellation Day Lily was the accepted English name of *Hemerocallis*, a nearly allied but much different looking genus of plants, for instance, Yellow Day Lily (*H. flava*) and Tawny Day Lily (*H. fulva*), about ten years ago Mr. William Robinson, of London, asked for an appropriate English name for the genus *Funkia*. Mr. Edwin Jackson, of Bangor, Wales, suggested Plantain Lily, because "the plants bear a fair resemblance in habit of leafage and inflorescence to * * Plantago major, while the funkias are one branch of the very extensive lily family." Mr. Robinson replied, "A good name." "Henceforward we propose to use this as the English name of funkia." And the name has been pretty generally accepted.

For garden use the principal species are *F. grandiflora*, the splendid white plantain lily that blooms in late summer; *F. Sieboldiana*, the most massive of all the genus, with handsome bluish green leaves and pale bluish-purple flowers in summer; *F. lancifolia*, the narrow leaved species that blooms in September and which has bluish-purple blooms; and *F. ovata*, which blooms in early summer, is of medium to vigorous growth, and has long petioled ovate leaves. *F. subcordata* belongs to the grandiflora set. *F. Fortunei* is near akin to *F. Sieboldiana*, and in the lancifolia section *F. spatulata* and the beautiful little variegated *F. undulata* are included.

While for flowers or fine foliage all are desirable garden plants, *F. grandiflora* is the only one I would recommend to the florist for cut blooms.

But their fine foliage effect is as good as that rendered by many soft-leaved tropical plants, and as they are easily forced into full foliage in winter, florists should try them in this way. And as we have beautiful and decidedly variegated forms, particularly of *F. ovata*, these



FUNKIA SIEBOLDI (REPRODUCED FROM LONDON GARDEN.)

should be given the preference. Among the best of these variegated plantain lilies are *F. ovata*, fol. argenteo variegata, *F. o. fol. aureo* var., *F. Fortunei marmorata*, *F. lancifolia marginata*, *F. l. var. spatulata marginata*, and *F. undulata variegata*. This last named is the little one so commonly used as a border in gardens.

All funkias are of the easiest possible cultivation, and they all like shade; indeed the variegated forms of *ovata* can only be kept in perfection when they are grown in shady places. But, for nursery purposes, open field culture suits them well enough. They are easily propagated by division, and the species, if need be, from seed. W. F.

House of Lizzie McGowan Carnations.

Our illustration is engraved from a photograph of a house of Lizzie McGowan carnations, grown by Mr. H. E. Chitty, Paterson, N. J. On the sides of the center bed is seen the wire netting used to keep the plants from falling across the foot path, as described by Mr. Chitty in a recent article in the FLORIST. On the left is seen a side bed of Lamborn carnations. The photograph was taken December 18.

The engraving also gives a good view of the interior of the new iron framed greenhouse erected by Mr. C. last summer. The entire framework is of iron, securely bolted together.

New York Floral Notes.

New York has never had such a demand for Christmas greens. The prices for fine greens and holly are a little higher this season than they ever were before. The Klunder Company made a beautiful decoration at Grace church; all the columns of this church were decorated with Christmas greens; evergreen trees were placed both sides of the altar where there were trimmings of vines and ivy; mounds were made of ivy also on each side of the altar. On the communion table in baskets were placed poinsettias. A great many scarlet wreaths of immortelles were made which were placed on the tablets, these were fastened on with branches of ivy. The arrangement of the mistletoe on the sides of these wreaths was very graceful and showed in beautiful contrast to the white marble of the altars.

A fine arrangement was also made at Father Ducey's church by the Klunder Company; the ten columns of the church

were covered with ivy and clematis; wreaths of ivy and mistletoe were hung from these columns; large groups of palms were placed at each side of the church; the altar itself was covered with large baskets of holly and white lilies; white roses and a few white flowers were placed here and there in the nooks of the white marble.

A suite of rooms at the Hotel Florence were decorated with wreaths of holly and bunches of mistletoe, and a bay window was very handsomely decorated with the latter; the mistletoe was hung all through the windows with very pretty effect. In the rooms the vases were richly trimmed with holly, and satin ribbon of the same color as the holly was tied upon each vase.

A beautiful dinner arrangement was made at Mr. Rhinelanders; the table was circular, and on this was a large mirror framed with cypripediums, among which was mistletoe. There was a little Adiantum Farleyense among the cypripediums in the frame; the whole represented a pond of water with beautiful effect.

Siebrecht & Wadley decorated the Methodist church on the corner of Madison avenue and Sixtieth street with three high panels, which were 18 feet by 12 wide, each of which bore an inscription from the Bible. The panels were covered with ivy, hemlock and holly, which very prettily showed three shades of green. Among these green panels were placed bells, wreaths and stars with fine effect.

The different types of imported holly trees are very handsome; these are placed in pots from 10 to 14 inches in size, which are dressed off in green moss; they are frequently sent as Christmas gifts and the largest ones are found very useful for vestibule decorations.

The azalea known as the Deutsche Pearl is now in market here and looks very handsomely among the Christmas greens. Dwarf orange trees full of fruit are used frequently by many families for a nice decoration; these trees are the Otahite or Chinese variety. The plants are in 5 and 6-inch pots, are not over 18 inches high, and usually bear about six oranges; these are frequently used in large dinner designs for the table.

A specimen plant of cyclamen of the giganteum section is frequently sent as a holiday present placed in a jardiniere. There is a good supply of orchids that are selling well. Primroses are just coming in and are of great beauty. Japan lilies are also very fine.

Alexander McConnell has sold quanti-



MR. CHITTY'S HOUSE OF LIZZIE MCGOWAN CARNATION PHOTOGRAPHED DEC 18

ties of Florida palms with which people seem to be very much in love; he has had *Ardisia crenulata* placed in celluloid baskets of white and pink. The fern pans in silver, filled with lycopodium, *Aucuba Japonica*, *ardisia* and *Cocos Weddelliana* are extremely pretty and these have had a great sale. Mr. McConnell has made up the "Parisian basket" during the holidays, and these also have had a fine sale, being filled with plants that last, in a fern pan underneath.

Mr. William Burns, who has the old store of Alexander S. Burns, is well patronized this holiday time; he had the decoration at Mr. Joseph H. Choates, which was a children's celebration held two or three days ago. The mirrors in the parlors were handsomely trimmed with holly and berries, and the doors were also made beautiful with this trimming. The crystal chandeliers of the parlors were trimmed with smilax and mistletoe. Mr. W. I. Brower is making up a new corsage bunch for Mr. Burns, which is becoming a great favorite; this is made of the Alexander pink carnation, with Grace Wilders, which are of not so deep a color, placed below them. This bunch is made very narrow, and is edged with maidenhair ferns and a few mistletoe sprays.

The Hanft Bros. are making up many favors of Christmas greens, and have their store completely covered on the outside with imported Roman wreaths. These are all a late importation from Berlin, and some of them are extremely

pretty. A wreath of edelweiss, trimmed with purple flowers, and with a scarlet bow at the side, is one of these pretty pieces. The Hanfts, although using a great many fine flowers in baskets and designs, still cling to the old camellia at holiday time, and it is well appreciated by many who order flowers at this place.

F. A. BENSON.

Chicago.

Quite a number of growers of and commission dealers in cut flowers mourn the absence of James B. Neal who for a little over a year past has carried on a florist business at 149 State street under the names Neal Floral Co. and M. Neal. He left town Christmas night, after getting in all the money he could from the heavy sales of the day before, and leaving unpaid bills to the amount of \$5,000 or \$6,000 behind him.

Neal came to Chicago in October 1889, and for a few weeks was in the employ of Gallagher, the Wabash avenue florist. Here he became acquainted with a gentleman by the name of Gluck whom he induced to set him up in business at 149 State street, Mr. Gluck investing about \$1,500. It was not long before there was trouble and a receiver was appointed. It is said that Mr. Gluck then bid a last fond adieu to the fifteen hundred, as he failed to get anything for his claim.

Mr. Neal again came into possession of the store, this time as M. Neal, florist, the initial being that of the woman who

passed as his wife, but whose real name it appears is Minnie Bouche, a woman of very shady antecedents. Then in spite of the fact that his reputation as a dead beat was well established, he managed to gradually secure credit for flowers and other supplies to large amounts, leading his victims on with promises to pay at certain times and then continuing the account by making a partial payment and securing still more goods than the payments covered.

He kept things going this way up to Christmas, in the mean time cutting and slashing prices in such a way as to seriously injure the retail trade in this city. He would hang out a show card offering roses at 35 cents and 50 cents a dozen when other florists could not buy the same stock at that rate at wholesale. That he could sell at such prices and still pay his bills, unless he got his supply at fully 50% less than any other florist, any person possessed of ordinary common sense knew was impossible, as his only capital was wind. Nevertheless he got credit, and as a result he was enabled to swash along and continue as a disturbing element in the trade, until last Thursday, when having got together every dollar he could, by any possible means, he and the woman left for parts unknown. He laid his plans carefully to make a last grand scoop, and they materialized finely. In several cases he secured flowers from those who would give him no credit, by offering good prices and agreeing to pay cash down on receipt of the goods, and

when the goods were delivered paying for them by check dated the day after Christmas. When these checks were presented to the bank the holders were informed that Mr. Neal had no money in the bank for several months. While he believed in getting credit himself he never gave any, doing a strictly cash business as far as sales were concerned, and one very unpleasant feature of his rascality was that he neglected to fill a host of Christmas orders for which he had received cash in advance from retail buyers. He even managed to borrow \$25 from one party the day before he left.

Probably the heaviest losers are Chas. H. Fisk, the wholesale florist, and Otto Ristow, a grower at Bowmanville, who is apparently interested in Mr. Fisk's establishment. Between them they held a judgment note for \$850 and a mortgage note for \$350, and there was probably a considerable open account besides, as Neal had been a heavy customer of Fisk's for a long time. Among the other creditors is the landlord, who has two months rent, \$400, the Electric Light Co., \$200, Heim Bros. of Blue Island, M. Weiland of Evanston, and O. P. Bassett of Hinsdale, about \$100 each, Dr. Williamson of Hinsdale, about \$150. It is reported that Gresenz & Harms were caught about \$200 by one of the Dec. 26 checks. The other losses were in various smaller sums, though an eastern rose growing concern is said to have dropped about \$500 with the "King faki" as he was generally known among the trade here.

All the employees were beat out of their wages, Neal telling them to wait until after Christmas for their pay. They are still waiting.

Some humorous incidents in connection with the affair are being related among the florists. It is said that on Christmas day he exhibited to one of his principal creditors three or four huge rolls of bills and said "They are all for you." He later proceeded to "square up" old accounts by giving one of his checks dated the 26th. He played the same trick to the tune of \$50 on a cigar dealer, and then made a Christmas present of a box of cigars to several of his employees and friends. The condition of the cigar man when he returned to 149 State street with the dishonored check on Friday was simply appalling, and it would be well for Mr. Neal's health not to get within his reach.

Mr. Neal came to Chicago with a bad record, it being pretty well known that he had left New York and Washington in much the same way that he has now left Chicago, and how he managed to secure credit to such large amounts in spite of his record is one of those dark mysteries which will probably never be satisfactorily solved.

He will undoubtedly now seek out some other city in which to play the same game, and florists in other cities are warned to be on the lookout for him. He is a man of about 35 years, a trifle under medium height, medium weight, and when he left Chicago wore a dark brown mustache. He is a very loud talker and great blower. The woman is rather taller than Neal, powders heavily, and has very large black eyes.

The Executive Committee of the Horticultural Society of Chicago held a meeting last Saturday. Nine of the eleven members of the committee, including all the officers of the society, were present, and much work was accomplished. The first regular meeting will be held Saturday, January 10, instead of the 3d as previously announced. It will be held

at the Palmer House. The principal business of the meeting will be to formulate plans for a mid-Lent rose and orchid show.

The Hon. S. M. Emery, president of the American Nurserymen's Association, paid Chicago a visit December 24. While here he called upon Director-General Davis, of the World's Columbian Exposition, and had an hour's interview. Mr. Emery left in the evening for Montana, where he will remain for a month or six weeks.

The regular meeting of the Florist Club will be held next Thursday, the 8th inst. The last regular meeting was omitted owing to the fact that the date fell on Christmas day.

Christmas trade averaged somewhat less than last year. There was a large supply of flowers and prices were 25% lower than at last Christmas. There was a big overstock of violets, white carnations, Roman hyacinths and smilax. Fancy colored carnations sold out clean. A big supply of all roses except American Beauties; an overstock of Perles and Niphetos, and they were sold at less than quotations. All red roses were sold. No demand for poinsettias. Quality of most stock was as good as usual. The overstock of smilax was very large. Less demand than ever before for it. Holly and green sold well at prices equal to those of last year.

As usual many flowers were held back until the last moment and then rushed in on the market. And as it was already loaded the result was an unusually heavy over-stock of many flowers when it was too late to ship.

Charles Reissig cut 112 scapes of *Laelia* among Christmas week. They retailed at the rate of 50 cents a flower.

The practice of loaning plants and giving away flowers from the conservatories of the public parks by the Park Commissioners has of late been aired with some effect by a local daily. In the past anyone who had a "pull" with the commissioners has been able to get about what he wanted, and it has often brought the park greenhouses into competition with the florists, to say nothing of the fraud on the tax-payers. The ventilation has already accomplished some good.

Boston.

The volume of Christmas trade was fully up to the average. The weather for several days preceding the holiday was more like April than December, consequently was most favorable for shoppers, so that the retail stores and street dealers had all they could attend to, and were it not for the constant complimentary reminders of the season, in the shape of decorated calendars for the coming year of grace, which came to hand by almost every mail, one might almost be persuaded that spring had arrived.

Such weather was a boon for the buyers, and in an equal degree a cross and a perplexity for the growers, who were put almost to their wits end to dispose of their unexpectedly bountiful crop at figures consistent with well established and generally accepted traditions. And they went about it in the usual short sighted way. For two weeks preceding Christmas they stored and stored, and anxious buyers were politely refused in the old fashioned style. And when Christmas was come they appeared in droves with their accumulated stock, with complacent and innocent confidence that nobody could detect the age on their goods, in which latter peculiarity they much resembled the

conventional old maid, and they succeeded in their little deception just about as well as that proverbial character. And at the wind-up they were just as persistently anxious to unload as they had previously been to accumulate. On Christmas morning it was indeed a lucky bad that escaped the cutting shears; if it only showed a speck of color that was enough for its thoughtless owner in his desperate determination to sell everything "for Christmas." So when on the day following, winter set in in dead earnest and the greenhouses were dark from the heaping snow drifts, roses and carnations were called for; there were none to be had.

The same old story year after year, and like other respectable stories it has its moral, yet how few there are who learn it or heed it.

It is said that several dealers who had bought recklessly were badly overstocked with certain varieties of flowers, which they were glad to unload finally at almost any price. Of bulbous stock there was a fair supply. Roman hyacinths were quite abundant, paper white narcissus ditto. There were a very few single trumpet narcissuses to be seen, the first cut of the season. Lily of the valley was of good quality. A limited quantity of scarlet Duc Van Thol tulips was also to be had but they were of small size and short stemmed.

Retail trade consisted mainly of orders for loose, long stemmed cut flowers, very few baskets or bouquets being called for.

Christmas "greens" of all kinds were well cleaned up. Mistletoe was very scarce, owing to the non-arrival of several expected consignments. Palm crosses from the south were used in many of the churches, to good effect. W. J. S.

New York.

Business during Christmas week was very good, although prices were considerably below those of last year. Carnations and violets were very plentiful. This was one reason why roses sold for less than last season, as there were very few of these flowers at that time.

Poinsettias, smilax, asparagus and bulb stuff of all kinds was also very plentiful.

There were a great many cypripediums in the market. Lilac made its first appearance Wednesday. There were more flowers sold than in previous seasons owing to the reduction of prices.

JOHN YOUNG.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XXII.

MISTAKES OF LAW AND OF FACT.

You seem to be in rather a bad humor this morning. I should say that you had been gathering thistles from your fig trees to judge by the expression of your face. Let me hear what the trouble is.

You say that the Featherly family ordered ten dollars worth of cut flowers for a crystal wedding last week and you sent the best you had in your hot house, and your boy brought back a receipt signed "I. Featherly," but the day after the wedding you meet Featherly who says you occasioned him a great deal of trouble by not sending those flowers. "But I did send them and have a receipt for them." "That's impossible," exclaimed Featherly, for says he "I went to another florist for them at the last moment."

An examination of the receipt shows that the flowers were carried by mistake of your boy to the "Widow Featherly" who signed J. Featherly, and as her brother-in-law's name is John you thought the thing was all right.

The widow Featherly who is accustomed to receive flowers from her admirers was not the least surprised by the arrival of these beautiful tokens of respect and made haste to exhibit her present in her parlor window.

Well you are certainly entitled to the return of the flowers, for the law is always ready to correct a mistake of fact, bear that in mind. Unfortunately the flowers were of a very perishable nature, and although Widow Featherly has no doubt watered and sprayed them very carefully every morning they are all faded by this time. Ha! ha! ha! ha! Excuse my laughing, but it certainly is very funny. "Would laugh on the other side of my mouth if the loss were mine?" Perhaps I would, but come, cheer up. Let us see if we mayn't draw some lesson from this loss of ten dollars in cut flowers.

As I have told you, the law corrects mistakes of facts, but not mistakes of law. A man is presumed to know the law and it will not help you out of a scrape to plead that you "didn't know that was the law." You should make it your duty to know. all the law points involved in your business.

Expecting too much is it? I don't think so. A few hours each week devoted to reading over some popular work on the law of business life would soon make you quite competent to cope with all ordinary questions.

Now suppose you draw on one of your customers for the amount of his bill and he writes "Excepted" on the draft instead of "Accepted," it will do him no good to plead that mistake.

The law is always ready to excuse a little error where there was no malice or intent to defraud. For instance, the omission of a date is not always fatal to an instrument, or the omission of a man's first name, provided he has been once properly described elsewhere in the document.

The law will supply the figure of the year when it is written 189 , provided it is plain that 1890 or 1891 is meant. So too in a will, where a man writes "son" when he is talking about a "daughter." In a word, the law never lets a trifle stand in the way of doing justice between men. But when a law case turns on a question of fact, it must go to the jury. They are judges of the fact always, but the other hand, the judge decides when it is a simple question of law. For instance, he may dismiss a case on the ground that admitting all you have sworn to yet it does not come within the statute. It is a question of fact whether a signature to a note is a forgery or not. The jury may even disregard the evidence of an expert.

It may sound strange to you but laws are made for the protection of those who have brains enough to profit by them. The exception to this is the minor, the lunatic and the habitual drunkard. The law takes them under its special care and direction. Their acts are not binding upon them.

This rule very often works hardship, for a keen and unscrupulous dealer gets the best of a simple-minded and confiding man. However, when the act is so bad as to become a fraud upon the man, the law will undo it. You may not see the justice of this rule. If a man were allowed to plead his ignorance as an excuse for



BERBERIS STENOPHYLLA X.

[REPRODUCED FROM GARDENERS CHRONICLE.]

an illegal act, the world would soon be in a bad way. It would be impossible to do business. A man would drive your cow into his yard, milk her and turn her out again, saying that he found her wandering along the highway and thought he had a right to milk her.

I have heard of a man signing an agreement with a lead pencil, thinking that it would not be binding upon him. But when informed that the pencil signature was good, his ire knew no bounds. That man was ignorant and malicious. Many men sign subscription blanks with the idea that they are not binding upon them and get very wrath when they find that they are bound by their signature.

Don't get a notion in your head that you have any legal hold upon a man. I mean a business friend who advises you to go into a speculation and it fails and you lose money.

Let me impress firmly upon your mind the importance of getting the best advice in the market. That is the way to avoid mistakes in law. It often happens that successful business men are men of very ordination education, but they know

enough to take good advice, to consult those who have the brains which they lack.

When anyone asks you to put your name to a document or take your name from it or in other words to do any act involving your liability for yourself or for others, say no! Go and consult an honest lawyer! Good, I'm glad to see you smile even at the expense of my profession. While a business man may reasonably be expected to know the law of endorsement he can hardly be expected to know the statute relating to limitations, or execution of wills or formation of partnerships.

It is I must confess rather hard for a so-called "lay man" to distinguish between questions of law and fact. In a general way I may say that whether words are libelous or not, whether a paper is a contract or not, whether representations amount to fraud or not, whether entering a man's land is a trespass or not, whether an agreement to try and sell together amount to a partnership or not, all these are questions of law.

But whether the flowers you sell as "English violets" are not the American variety is a plain question of fact. So is the question as to whether certain fruit trees are grafted or not, or whether certain flower seed is the "double variety" or not.

Think these things over at your leisure, there is much profit to be drawn from them. The loss of the ten dollars is a mere trifle provided you profit by the experience. I would advise you always to be extremely careful in the delivery of your merchandise, for being so extremely perishable it often becomes worthless before you can recover possession of it.

Working as you do in a pure atmosphere there is no reason why you should not become a deep thinker, almost a philosopher like old Father Adam the first gardener, who had brains enough to give names to all the animals and have dominion over them all.

UNCLE BLACKSTONE.

Berberis Stenophylla X.

North of New York this is a case of sour grapes, but south of Philadelphia it is grateful as Alexandria muscats. It is a garden hybrid, and one of the most beautiful and elegant little evergreen shrubs in cultivation; free-growing and free-blooming, but, unfortunately barely hardy on Long Island. In European gardens it stands in the front rank of the genus.

Its parents are Berberis empetrifolia, a little plant from the Straits of Magellan, but infrequent in cultivation, and B. Darwinii from southern Chili, and one of the most admired of all the species.

Berberis stenophylla has stiff, but slender arching stems and branches: abundant, deep, glossy green, small mucronate leaves, and little clusters of rather large, showy, golden yellow blossoms that are produced abundantly in spring, with a scattering few again in fall. The plant suckers a good deal from the root, spreading, and forming broad clumps.

We have had this plant out of doors for some years and by mulching it with forest tree leaves in winter manage to save it fairly well, but in case of accident we also lift a clump in fall and winter it in a cold pit and plant it out again in spring, and the plant thus preserved is always our finest specimen. W. F.

COMMERCIAL BOTANY of the Nineteenth Century, by J. R. Jackson, Curator of the Museums, Royal Gardens, Kew, England, has been issued by Cassell & Co., London.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 cents a Line, Agate:
1 inch, 50 cents; 10 lines, \$4.00.
Cash with Order.

NO SPECIAL POSITION GUARANTEED.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
25 times, 20 per cent; 52 times, 30 per cent.

No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.
Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE WORLD'S COLUMBIAN EXPOSITION.

The great exposition of 1893 will give the florists, nurserymen and seedsmen of America a splendid opportunity to show to the world the wonderful progress made in the last ten or fifteen years, a progress regarding which the public in general has only the vaguest information.

The growth of the florist's business during the past ten years has been truly phenomenal; that every one in the trade knows, but those who are not in the trade do not know it, and in the nature of things can not be expected to know it, until the matter is placed before them in some visible shape. And until the facts are placed before the public in a comprehensive manner the trade will not receive the consideration and attain to the dignity to which it is really entitled. The Society of American Florists has done much to bring the growing importance of the trade to the public eye and ear, but if the opportunity of 1893 is made full use of, more will have been accomplished in this direction, in that one year than in the whole history of the society which has done so much for the florists of America.

That the florists of this country are sufficiently enterprising to make full use of this great opportunity to benefit themselves and at the same time materially aid in magnifying the importance of the profession in the public mind, we are fully assured, and that the time for discussion of plans whereby the greatest results may be secured has arrived, there can be no doubt.

As Americans we are all interested in seeing that the exposition is a credit to America, and as horticulturists we are all interested in seeing our special department a credit to American horticulture.

We are assured by Director-General Davis that the Horticultural Department of the Exposition will be organized soon after the date this issue bears, and we have reason to believe that the accomplished gentleman whom the Society of American Florists, the American Nurserymen's Association and the American Seed Trade Association have endorsed for that position, namely Mr. James D. Reynolds of Riverside, Ill., will be selected as its chief. With Mr. Reynolds at the head of this department every subdivision will receive the attention its importance merits and will be moulded into one harmonious whole. Having been educated as a civil engineer and followed that profession for some years prior to entering the ranks of the horticulturists; being also familiar with the details of landscape gardening as well as those of floriculture, and a man of fine executive ability, he is peculiarly well fitted to discharge the duties of chief of the department. With such a man at the helm there can be no reasonable doubt

of the success of the department in properly showing to the world the resources of and the progress in American horticulture, if material is provided.

One wholesale grower of plants has assured us that he will expend \$2,000 in making a display at the exposition, and will feel that it will be the cheapest advertising he can buy. While this is probably an exceptional case we know that the far-sighted men in the trade everywhere will not fail to be represented at the exposition by specimens of those plants, trees, shrubs, etc. that they hope to increase their trade in, well knowing that they can have no better advertisement of them than the privilege of exposing them to the inspection of the millions who will visit Chicago in 1893.

It is time now to lay plans for your exhibit at the exposition. It is time to be revolving the matter in your mind, and it is time now to express your views upon the classification and arrangement of the exhibits in the horticultural department, through the columns of the AM. FLORIST.

It has been suggested that there be shown examples of landscape gardening. Certainly an excellent suggestion, and now that ample space is assured through the location of the exposition at Jackson Park it is quite feasible if preparations are made at once. It is doubtful if anything could be more interesting and instructive to the visitors at the exposition. These should be of different types, and should include examples of planting for city lots as well as larger grounds. An exhibition of this kind would not fail to greatly increase the demand for such plantings.

Let us have further suggestions on matters connected with the exposition.

THE DAY after Christmas we received a box of chrysanthemum flowers which had been sent us by Mr. Arend Brandt, Newport, R. I. They were large fully developed flowers. Each bloom bore two labels, one giving the name of the variety and the other stating the time the cuttings were placed in the sand bed. We append a list of the sorts, giving after each, in parenthesis, the date the cutting was taken: Nesima (August 20), Mrs. Frank Thompson (August 20), W. H. Lincoln (August 20), Mountain of Snow (September 27), Christmas Eve (September 6), Lilian B. Bird (September 6), and a number of unnamed seedlings, propagated at some one of the dates named.

There were also in the box a few whole plants, showing the height of same, which did not exceed one foot, though the flowers were nearly equal in size to those on large plants. Mr. Brandt states that he had several thousand plants of chrysanthemums in full bloom for Christmas.

We have received from Mr. Joseph Linfoot, College Hill, O., specimen blooms of

a bouvardia of a very dark scarlet. The color is excellent, deeper than in any bouvardia we have yet seen. No letter or explanatory note accompanied the flowers, nothing but a business card, hence we are unable to give name of the variety or any definite information regarding it.

A VERY WELL written article on the chrysanthemum appears in the issues of the *Sunny South* for Dec. 13 and 20.

LOS ANGELES, CAL.—The net receipts from the recent chrysanthemum fair were \$1,063.30.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (each word) on each insertion. Cash must accompany order. Plant advts. not admitted under this head.

SITUATION WANTED—As gardener and florist; can give good reference as to character and ability. W. W. DEGRAU, Hudson, Sumit Co., O.

SITUATION WANTED—By gardener and florist; single, age 31, in private or commercial place, as foreman. Scotch, good references. Address: C. J. FLORES, Box 29, Kalamazoo, Mich.

SITUATION WANTED—By florist thoroughly experienced in all branches, age 29, first class testimonials. State particulars, address: C. J. FLORES, Box 29, Kalamazoo, Mich.

SITUATION WANTED—Single man having 12 years experience on private place; first class references. Address: C. J. FLORES, Box 29, Kalamazoo, Mich.

SITUATION WANTED—By young single man as florist, 9 years experience; good rose grower and first class at cut flower and design work. Good references. Address: W. M. CARE, American Florist, P. O. Box 151, New York City.

WANTED—A man for herbaceous department of a large nursery. This is a great opportunity for a sober, steady and energetic man. Address with references: W. M. CARE, American Florist, P. O. Box 151, New York City.

WANTED—A good reliable single man to take charge of greenhouses, one that is accustomed to taking care of palm, fern and decorative plants. No others need apply. Address: CHAS. J. CARE, American Florist.

WANTED—An active, progressive greenhouse grower, who could at times assist in order and packing department of a large commercial place. Give references and particulars to: G. G. LOCK BOX 1618, Philadelphia.

WANTED—A gardener, commercial, must understand growing roses, plants and vegetables, a German married man, previous experience, stable salary and experience. J. T. BARTLEY, Oconomowoc, Wis.

WANTED—Gardener to take charge on or before the first of April of a private place near 100 miles of New York; must be thoroughly up in growing of vegetables, small fruit, flowers and grapes both in open ground and under glass; will have to board his men. Address giving experience, references, age, nationality and wages. I. G. POSTON Box 59, New York City.

FOR SALE—A country home with greenhouse, in a prosperous Connecticut town. For particulars address: BIVOTT, care Am. Florist.

FOR SALE—Set of the reports of the Illinois State Horticultural Society; also set Illinois Agricultural Reports, set U. S. Agricultural Reports. Address: Mrs. J. H. McINN, Austin, Ill.

FOR SALE.

Five greenhouses built within three years; supplied by own water works; no more than five miles from 6,000 inhabitants, eight miles from two cities; population 250,000; a fine line of fruit and shipping facilities. Small capital required. Houses well stocked with plants for cut flowers. One of the best places in the country for growing cut flowers, such as violets, etc. Good reason for selling. J. D. JARRETT, Woodville, Allegany Co., Pa.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

Mention American Florist.

SAN FRANCISCO, CAL.

PHILADELPHIA.—A daily paper announces the death of Jacob Cocklin, at his home in York county, at the ripe age of 93 years. Mr. Cocklin was one of the pioneer nurserymen of this state, and was well known among the older pomologists in this country, having been one of the first Americans to undertake the improvement of large and small fruits. Among his productions were "Cockling's Favorite" and "Triumph of Cumberland" cherries and the "Cumberland Triumph" strawberry. It is nearly half a century since he retired from active business.

MILWAUKEE.—Benjamin Gregory, proprietor of the Humboldt Avenue greenhouses, is not listed in the trade directory, and should be added.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughn's Cut Flower Dept.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

C. H. FISK,
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.
FINE DESIGNS IN STOCK

KENNICOTT BROS.
WHOLESALE FLORISTS,
27 Washing'on Street, CHICAGO.
All Cut Flowers in season. Orders promptly shipped.
Store open until 9 P.M. Sundays until 2 P.M.
ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

O. W. Frese,
WHOLESALE FLORIST
66 Wabash Ave., CHICAGO.

Consignments Solicited.
STORE OPEN NIGHTS AND SUNDAYS.

CUT FLOWERS.
The choicest Cut Flowers, of our own growing, at lowest market rates, shipped C. O. D. Use A. F. Code when ordering by telegraph. Telephone connections. For prices, etc., address
J. L. DILON, BLOOMSBURG, PA.

BENNETT ROSES
OUR SPECIALTY.
LA FRANCE, METEOR,
PERLE, GONTIER,
BON SILENE, SUNSET,
MERMET, NIPHETOS,
THE BRIDE, AM BEAUTY.

Fine 2½ inch plants in fine condition. WRITE IMMEDIATELY for special prices to

SMITH FLORAL CO.
77 7th Street S., MINNEAPOLIS, MINN.

NIPHETOS ROSES
English grown. Well ripened.
Strong, for forcing, 2 to 2½, 60s per 100.
Older plants, 2½ to 3½, 100s per 100.
P. STREET, Nurseryman,
Heatherside Nurseries, CAMBERLEY, ENGLAND.

Wholesale Markets.

Cut Flowers.

BOSTON Dec. 29.	
Roses, Bon Silene.....	\$5.00 @ 10.00
" Niphetos, Gontiers.....	12.00 @ 15.00
" Perles, Sunsets.....	12.00 @ 15.00
" Mermets, Brides.....	15.00 @ 20.00
" La France.....	25.00 @ 30.00
" Woodtons, Hostes.....	15.00 @ 20.00
" Am. Beauty.....	50.00 @ 100.00
Carnations, short.....	1.50 @ 2.00
Carnations, long.....	2.50 @ 4.00
Valley.....	6.00
Roman hyacinths.....	4.00
Narcissus.....	4.00
Violets.....	16.00 @ 20.00
Callas.....	2.00 @ 3.00
Bouvardia.....	2.00 @ 3.00
Fansies.....	1.50 @ 2.00
Smilax.....	12.50 @ 15.00
Adiantums.....	15.00 @ 1.50

PHILADELPHIA, Dec. 29.	
Roses, Beauties.....	50.00
" Brides.....	75.00 @ 100.00
" La France, Albany.....	15.00
" Laings, Luzits.....	50.00 @ 75.00
" Mermets, Brides.....	15.00
" Gontiers.....	10.00
" Bennetts.....	12.00
" Hostes, Cousins.....	15.00
" Perles, Niphetos.....	6.00
Valley.....	2.00 @ 3.00
Carnations.....	1.00 @ 2.00
Bouvardia.....	1.00
Heliotrope.....	1.00
Violets, single.....	.40

NEW YORK, Dec. 29.	
Roses, Bon Silene.....	\$4.00 @ \$5.00
" Gontiers.....	5.00 @ 6.00
" Perles.....	6.00 @ 8.00
" Niphetos.....	4.00 @ 5.00
" Sou's.....	5.00
" Watteville's, Cousins, Hostes.....	10.00
" Mermets, Brides, Bennetts.....	10.00 @ 15.00
" La France, Albany.....	15.00
" Brides.....	75.00 @ 100.00
Smilax.....	15.00
Carnations, long.....	50.00 @ 100.00
Asterisks.....	20.00
Longinorum lilies.....	6.00 @ 8.00
Valley.....	2.00
Roman hyacinths, narcissus, tulips.....	4.00
Marionette.....	1.50
Bouvardia.....	1.50
Adiantums.....	1.25
Lilac, per bunch.....	2.50

CHICAGO, Dec. 31.	
Roses, Perles, Niphetos.....	12.00 @ 15.00
" Gontiers.....	10.00 @ 12.00
" Bon Silenes.....	8.00 @ 10.00
" Mermets, La France, Brides.....	20.00 @ 30.00
" Bennetts.....	20.00 @ 30.00
" Am. Beauties.....	50.00 @ 60.00
Carnations, short.....	2.00 @ 2.50
Carnations, long.....	3.00 @ 4.00
Carnations, long, fancy.....	5.00
Smilax.....	15.00 @ 20.00
Adiantum.....	1.25 @ 1.50
Violets.....	2.00 @ 2.50
Valley.....	4.00 @ 5.00
Roman hyacinths.....	4.00
Callas.....	20.00 @ 25.00
Poinsettias.....	20.00 @ 25.00
Sterea.....	5.00
Narcissus.....	4.00 @ 5.00

WM. J. STEWART,
Cut Flowers & Florists' Supplies
WHOLESALE
67 BROMFIELD ST., BOSTON, MASS.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
1122 FINE STREET,
ST. LOUIS, MO.

IMPORTED H. P. ROSES,
Worked low on the Manetia Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.
Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.
A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots at low rates. The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

THOS. YOUNG, JR.,
WHOLESALE FLORIST
20 West 24th Street,
NEW YORK.

LILY OF THE VALLEY,
And the Choicest ROSES for the
fall and winter season.

W. S. ALLEN,
WHOLESALE DEALER IN CUT FLOWERS,
36 EAST 23rd STREET, NEW YORK.
ESTABLISHED 1877.
Price List sent upon application.

HAMMOND & HUNTER,
WHOLESALE DEALERS IN
CUT FLOWERS,

51 West 30th St., NEW YORK.
W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
No. 32 W. 30TH ST., NEW YORK.
Orders to be shipped will receive prompt attention.

JOHN YOUNG,
WHOLESALE FLORIST
56 WEST 30TH STREET,
NEW YORK.

A. S. Burns. J. I. Raynor.
BURNS & RAYNOR,
WHOLESALE FLORISTS,
11 WEST 28th St.,
NEW YORK.

LaRoche & Stahl,
Florists & Commission Merchants
—OF—
CUT FLOWERS.
1237 Chestnut Street, PHILADELPHIA.
Consignments Solicited. Special attention paid to shipping. Mention AMERICAN FLORIST.

J. M. McCULLOUGH'S SONS,
Wholesale Commission Dealers in
CUT FLOWERS,
134 & 136 Walnut Street, CINCINNATI, O.
SPECIALTIES:
ROSES, CARNATIONS AND ORCHIDS.

ROSES
FOR WINTER BLOOMING.
10,000 healthy Roses from 4-inch pots, consisting of
MERMETS, BRIDES, PERLES,
NIPHETOS and BON SILENES,
at \$10.00 per 100.
Also 5,000 field-grown JACKS, 2 to 3 ft.
\$10.00 per 100.
DAISIES of the finest strain from seed-
bed \$3.00 per 1000.
JAMES HORAN, FLORIST,
BRIDGEPORT, CONN.

Extracts From Poor-man's Primer.

"Father, who is that strange man?"
 "That, my son, is the fool killer."
 "What does he do?"
 "Removes the careless, unwise and slipshod business men and others."
 "Does he come often?"
 "Yes, in his lots of business."
 "Why, don't he go everywhere?"
 "No. He always seems to avoid growers of cut flowers (amateurs as well as professional) who sell to the retail florist who runs his business on WIND and pays in the same coin."
 "Pa, is it true that a sucker is born every minute?"
 "Yes, I think about three to the minute this year."

"How does this kind of work help honest men?"

"It helps drive nails in their coffins and plant them deep."

"Should anybody really write to reliable references and try to know if their customer has money to pay with?"

"O, yes indeed, always, unless they are florists."

"Pa, is it the law that a man who don't pay well has the most credit and that only the one whose record is good must pay cash down?"

"No, it is not really the law but only florists' custom."

SPRINGFIELD, MASS.—I wish to make a correction. There is no one here by the name of Father, it should be Grout. He is a carnation grower and makes a specialty of Grace Wilder, devoting one whole house and part of another to them, both houses being 100x20 ft. A. B. COPELAND.

J. A. DE VEER,

18 Burling Slip, - NEW YORK,
 Importer and Dealer in
BULBS, SEEDS, PLANTS
 and Florists' Supplies.

Agent for Foreign Houses. Catalogues free to the trade.

TUBEROSES, FINE BULBS.

GLADIOLI, FORCING SORTS.
NEW CROP FLOWER SEEDS.
W. W. BARNARD & Co.,
 Successors to HIRAM SIBLEY & Co., Chicago.
 6 & 8 North Clark Street, CHICAGO.

YOU MAY BELIEVE IN

FREE TRADE

If so you will be pleased to know
 The tariff on seeds has not increased,
 But you must admit that

PROTECTION

To the interests of Farm and Garden
 Demands the use of **GOD SEEDS.**
 If you want the **Best** write for

Burpee's Farm Annual FOR 1891

With honest descriptions and illustrations.
 Rare Novelties in Vegetables and Flowers.

W. TALEL BURPEE & CO.
PHILADELPHIA, PA.

G. J. MOFFATT,

Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
 Printing a Specialty.
NEW HAVEN, CONN.

Samples and prices on application. When writing
 for prices, please state sizes and quantity wanted.
 Mention American Florist.

GLADIOLI. GLADIOLI.

Our stock of Bulbs are now harvested and will shortly be ready for shipment. The Bulbs this season are exceptionally fine and in good condition. Our special mixtures under color are made with the greatest care and will be found of a higher grade this year than heretofore. For our mixtures for Forcing we wish to draw the attention of our florist friends and assure them of their extra quality.

Per Doz. Per 100 Per 1000

K-R-Varieties of Red and Scarlet	.....	\$ 75	\$4.00	\$10.00
Bronchyleyenia	.....	30	1.50	17.00
R-Red and Scarlet	.....	60	2.00	17.00
L-White and Light	.....	75	3.50	30.00
W-White and Light	.....	60	2.50	20.00
P-Pink	.....	60	2.00	25.00
Y-Yellow in Variety	.....	1.00	6.00	20.00
B-Blue and Salmon	.....	60	2.50	20.00
S-Striped and Variegated	.....	40	2.00	20.00
Supreme Mixtures of high quality	.....		

\$10.00 per 1000 by Express.

TUBEROSES.

Pearl Dwarf, Double No. 1	.....	1.50	12.00
Tall Double (Italian Double), First Size	.....	1.50	12.00
Excelsior Pearl, A No. 1. Special fine strain of Pearl which we guarantee to be 98 per cent pure	.....	1.50	13.00
Variegated Foliage	.....	2.25	20.00
Single Flowers	.....	1.50	15.00

VARIETIES OF FLOWER SEEDS FOR PRESENT SOWING.
 Pansy Seed in great variety from all the finest strains. See Catalogue for prices etc.
 Carnation Seed No. Marguerite, 50 cents per pot. Stocks in variety. See Catalogue for prices.
 Vinca rosea, 1/4 oz. 25 cents. Vinca rosea alba, 1/4 oz. 25 cents. Vinca alba, 1/4 oz. 25 cents.

V. H. HALLOCK & SON,
QUEENS, N. Y.

WE WANT YOUR ORDERS NOW
 — FOR —

Chinese Narcissus,

AURATUM, LONGIFLORUM, ALBUM, RUBRUM,
 KRAMERI, ELEGANS, AND OTHER
 JAPANESE BULBS.

CALIFORNIA LILY BULBS.

Australian Palm Seeds.
California Palm and Flower Seeds.
JAPAN PALM, SHRUB AND FLOWER SEEDS.

Our new Wholesale List of above, and of Trees, Ornamentals, Shrubs, Plants, Conifers, etc., now ready. **SEND FOR IT.**

H. H. BERGER & CO.,
 P. O. Box 1501, SAN FRANCISCO, CAL.

Mention American Florist.

**TUBEROSE BULBS.**

— Best stock in several years. Send for sample and —
 — prices, stating quantity wanted. Reliable Bulbs, free —
 — from disease, at lowest prices.

J. C. VAUGHAN, CHICAGO.

1891. Home Grown, Honest, Reliable.



1891.

SPIRÆA JAPONICA

Surplus Stock of 40,000 extra strong clumps for forcing, at \$10.00 per 1000 and packing free. Cash with order, to

SEGRÉS & CO., Bulb Growers,
 LISSE, near Haarlem, HOLLAND, EUROPE.

100 No less than 500 will be sent at this rate.
 Mention American Florist.

WHOLESALE CUT FLOWERS

AND FLORISTS' SUPPLIES.
THE WISCONSIN FLOWER EXCHANGE,
 133 Mason Street, MILWAUKEE, WIS.

**TRY DREER'S GARDEN SEEDS**

Plants, Bulbs, and Requisites. They are the best at the lowest prices. **TRADE LIST** issued quarterly, and free to the trade only.

HENRY A. DREER,
 Philadelphia



Lock the door **BEFORE** the horse is stolen. Do it **NOW!**
JOHN G. ESLER, Sec'y & F. H. A.,
 Saddle River, N. J.

— ORIGINAL AND LARGEST GROWERS OF —

LILIUM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

— BULBS NOW READY FOR DELIVERY. —

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 140 in length, of a crop of Liliium Harrisii in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name—Bermuda Easter Lily—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fills in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his own use. We hear it said occasionally that Liliium Harrisii flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**: supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

— HALF A MILLION BULBS. —

Be sure you get the genuine Liliium Harrisii. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant L. Longiflorum in Bermuda, planting it with Harrisii to increase their stock rapidly when Harrisii was very scarce, thus mixing the stock, irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

News Notes.

RICHMOND, VA.—Hill Brothers, florists, 515 West Broad street, should be added to the list in the directory.

CHIEFTERTOWN, MD.—The wife of R. G. Nicholson, proprietor of the Little Grove Nurseries, died November 28.

SOUTH NORWALK, CONN.—F. S. Lyons has just completed two new greenhouses, one 50x20, the other 97x9. All heated by hot water.

CLEVELAND, O.—Charles Erhardt has opened a floral store at 358 E. Erie street since the publication of the directory and should be added to the list.

LINCOLN, NEB.—The winter meeting of the Nebraska State Horticultural Society will be held in this city January 13, 14 and 15. Special rates are expected from all the railroads in the state.

BUNKER HILL, ILL.—T. Summerville's greenhouses were destroyed by fire the morning of December 18. Loss about \$1,200. No insurance. The fire originated around the heating apparatus.

JERSEY CITY, N. J.—Florist Stone, of Greenville, who was a short time since arrested as an accessory to recent burglaries here, has been fully exonerated by a confession of the leader of the gang who was caught last week.

PITTSBURG, E. W. Williams' greenhouses at Knoxville were destroyed by fire at 2 o'clock the morning of December 27. The fire originated from a defective flue. An adjoining frame building was also destroyed. Loss on buildings \$4,500, and on stock \$2,000. No insurance. A meeting of the Pittsburgh and Allegheny Florists' Club will be held at Ludwig & Richter's store, 14 Federal street, Allegheny, Thursday, January 8, at 8 p. m.

UTICA, N. Y.—During the past season Samuel Davies built four houses, each 100 feet long. Two were for roses, one for violets and one for carnations. His house of American Beauty roses have done extra well and he is satisfied that this is a profitable rose to grow if handled right. Violets have also done finely this year with him. He will later send to the FLORIST for publication a record of blooms cut from a given number of plants during the season.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. Shelmire,
AVONDALE, PA.

Mention American Florist.

Rooted Cuttings of Carnations

of all the Standard Varieties ready Dec. 1st.

Having added another 100 foot house to our Carnation Department, hope to be able to furnish any quantity desired, on short notice. Orders for future delivery at 10 per cent off from catalogue price.

JOS. RENARD, Unionville, Chester Co., Pa.

Rooted Carnation Cuttings.

BEST PAYING VARIETIES FOR THE MARKET.

Prices to suit everybody. Write for them.

Address **OTTO HANSEN,**
GALEWOOD, MONT CLARE P. O., ILL.

ROOTED CUTTINGS.

—Send for Lists. The prices and quality are sure to please.—

CARNATIONS—All the leading sorts. Eight 100 foot houses.

COLEUS—An immense stock. Twenty-four varieties.

GERANIUMS—A choice assortment in mixture, at \$10.00 per 1000.

CANNAS—French and others, and numerous items of interest to florists. A new feature in Smilax culture.

CARNATION NOVELTIES.

Lizzie McGowan, Louise Porsch, Golden Gate, J. R. Freeman, Wm. F. Dreer, Hector, Edelweiss, Angelus, Dorothy, Nellie Fly, Snow Bird, White Wings, May Flower, Orange Blossom, Beauty of Oxford, Emily Louise Taplin, and others are described in my list.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

Lizzie McGowan.

I beg to announce to the trade that I shall be prepared to distribute this magnificent **NEW WHITE CARNATION** on the 10th of February, 1891, and that the price will be \$12 per 100, and \$100 per 1000, for strong well rooted plants from the cutting bench. Favorable special rates will be allowed on large quantities. Cash or its equivalent should accompany orders from unknown correspondents.

Send for descriptive circular of this and other sorts. Parties wishing a few flowers of Lizzie McGowan can have them by enclosing twenty-five cents in stamps.

ADDRESS

H. E. CHITTY, PATERSON, N. J.

CONSTANCY.

We claim this to be the best winter-blooming long-stemmed scarlet Carnation that is now offered for florists and amateurs. It is a child of The Century, containing blood of Portia, and possessing its color, but with larger flowers; not running to so many small, inferior florets as does its parent after the first flush of fall bloom. It is a glowing scarlet, fringed; growth strong, and free from disease, being dark green and luxuriant; and will exceed its parent in number of blooms to the same space occupied. Strong plants from 2 1/2-inch pots in February, at \$2 per dozen; \$15 per 100. Special discount on large orders. Sample blooms of my four splendid new winter-blooming Carnations **GOLDEN GATE, WM. F. DREER, J. R. FREEMAN** and **CONSTANCY** will be mailed to any address on receipt of 35 cents.

CHAS. T. STARR, Avondale, CHESTER CO., Pa.

LIZZIE MCGOWAN.

I will be prepared to distribute my **NEW WHITE CARNATION** Feb. 10, 1891, and the price will be \$12 per 100, or \$100 per 1000, for Rooted Cuttings propagated from **STRICTLY HEALTHY PLANTS**. Special discount on large orders.

Cash or its equivalent should accompany orders from unknown correspondents. Send for descriptive circular. Parties wishing a few flowers of this **GRAND Carnation** can have them by enclosing twenty-five cents in stamps.

ADDRESS

JOHN MCGOWAN,
363 Main Street, ORANGE, N. J.

CARNATIONS.

Lizzie McGowan, Fred Creighton, Golden Gate, Fair Rosamond, J. R. Freeman

Hector, Mrs. Fischer, Wm. F. Dreer, Chastity, Silver Spray,

Tidal Wave, Grace Wilder, L. L. Lamborn.

50,000 now in cutting bench including these and 60 other leading vars. Send for price list, ready in 10 days.

GEO. HANCOCK, Grand Haven, Mich.

ROOTED CUTTINGS OF CARNATIONS.

Standard and Fancy varieties, ready January 1st. Stock healthy, cuttings rooted cool. A large stock of **NEW WHITE CARNATION** L. L. Lamborn. A liberal discount on large lots for later delivery. Send for wholesale price list.

Wm. Swayne, P. O. Box 226, Kennett Square, Pa.

CARNATIONS.

Golden Gate, Fred Creighton, Mrs. Fischer, Tidal Wave, Daybreak (Simmons' new pink), Lizzie McGowan, Lamborn, Silver Spray, Orient, Freeman, Buttercup. Rooted cuttings or plants, at market rates. J. C. Vaughan, Chicago.

Every Florist! Every Nurseryman! Every Seedsmen!

SHOULD HAVE
OUR TRADE

DIRECTORY.

Address **AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.**

NEW CHRYSANTHEMUMS.

MILLER'S "WORLD'S FAIR SET."

We have been to great expense, sparing neither time or money in collecting this unequalled set. Characteristic of the leading city of this country, we have named them in honor of our representative citizens:—FERD W. PECK, or GALLIA, and J. V. FARWELL, or W. N. RUDD, were two of the set of six seedlings that took the \$100 prize at Indianapolis; S. W. ALLERTON and GEO. R. DAVIS were raised by Monahan of Philadelphia, who has originated some of our finest varieties. CYRUS H. McCORMICK was raised by Jamieson, and is one of the finest of the present year's novelties. The remaining eight are the XXX selections of 1800 seedlings that were raised by the leading grower of this country. In comparing

them with the different sets sent out this year we unhesitatingly say that they are second to none.

LYMAN J. GAGE, a grand late white.

GEO. R. DAVIS, ox blood red, Wheeler type.

J. V. FARWELL (W. N. RUDD), Lavender without, rosy violet within, a fine keeper.

CYRUS H. McCORMICK, Dark deep yellow, shaded bronze red.

ANDREW McNALLY, Crimson scarlet, fine for exhibition.

POTTER PALMER, White seedling from L. Canning, very large.

FERD W. PECK (GALLIA), Rosy pink, fine exhibition variety.

CHAS. H. WACKER, Crimson scarlet, profuse bloomer.

ROBT. A. WALLER, Chamoise yellow, extra.

CHAS. T. YERKES, Bright scarlet and gold, fine cut flower variety.

S. W. ALLERTON, An immense white fine for pot culture.

MARTIN A. RYERSON, An improved Mrs. Frank Thompson.

FRED S. WINSTON, Cardinal and Indian red of the Carnegie type.

SET OF 13 FOR \$6.

Orders booked for the above and also 100 of the leading exhibition and cut flower varieties to be delivered early in January. Send for descriptive list. "Get the best, grow the best, and keep up with the times," is our motto.

Orders booked for the PINK OSTRICH PLUME CHRYSANTHEMUM, LOUIS BOEHMER, at market price.

GEORGE W. MILLER, 1748 North Halsted St., CHICAGO.

EXHIBITION

CHRYSANTHEMUMS

The PRIZE Winners of 1890, in three sets.

Send for list.

M. A. HUNT,

TERRE HAUTE, IND.

Mention American Florist.

New Chrysanthemums FOR 1891.

MISTLETOE, silver and crimson; the Prize winner at Indianapolis.

The following 7 received Certificates of Merit: MERMAID, pink; ANNA DORNER, creamy white; EVALEEN STEIN, white; IN- NOCENCE, white; EDA PRASS, salmon; EMMA DORNER, violet pink; MATHIE BRUCE, pink.

Price, \$1.00 each; \$6.50 for the set. Discount to the trade. Send for descriptive list.

FRED DORNER,
LA PAYETTE, IND.

Chrysanthemum Plants for Sale.
READY IN FEBRUARY.

MME. LACROIX, the best early white. Per 100 4.00
PRES. HYDE, fine early yellow. 5.00
CROPHILLUM, CULLINGFORDI,
JARDIN DES PLANTES, fine market var. 5.00

WILLIAM W. EDGAR, Waverley, Mass.

Special Offer.

Aloysis citridora (Lemon Var.) 2 in.	Doz. Per 100
Antheus coronaria fl. pl. 2 in. pots.	8.00 4.00
Aegeria, white and blue 2 in. pots.	4.00
Abutilon Eclipse, 2 in. pots.	25 4.01
Crochallum lanatum 2 in. pots.	30 4.00
Mesembreanthemum cordata var. 2 in.	50 4.00
Peristrophe aerea variegata 2 in. pots.	50 4.00
Rose Geraniums, true 2 in. pots.	50 4.00
Ottona capitata 2 in. pots.	50 4.00

A. GIDDINGS, Danville, Ill.



DREER'S DOUBLE PETUNIAS

Now Ready for Delivery, our Select Strain of Double Petunias, in good, strong, healthy stock plants, in 3-inch pots.

The strain of Petunias we offer is too well known to require much description— suffice it to say, that the varieties offered this season are fully equal to our former introductions. The advantage of securing stock early in the season will be readily appreciated, as a limited number of plants will produce a large number of cuttings.

We offer 15 named varieties, at \$1.50 per dozen; set of 15, for \$17.50; \$10.00 per hundred.

Seeds of Double Petunia, from the finest fringed and blotched varieties, saved on our own grounds, crop 1890. Per trade pkt. of 750 seeds, \$1.

See Our New Trade List, offering all the good things of the season, will be ready early in January.

HENRY A. DREER, Philadelphia, Pa.

NEW FLOWER SEEDS.

Lobelia; Golden Feverfew; Tuberous Begonia, single white, pink, scarlet, yellow and mixed; Verbena; Smilax; Candytuft; Alyssum; Petunia; Asters; Margaret Carnations; Cobaea, etc. Other seeds constantly coming in.

J. C. VAUGHAN, BOX 688, CHICAGO.

ROOTED * * *

* * * CUTTINGS

FROM CLEAN AND VIGOROUS STOCK.

COLEUS—Eighteen varieties, including Golden Beller, Verschaffeltii, Golden Verschaffeltii, Firebrand, Glory of Autumn, Sunny, Peter Henderson, etc. Labeled samples of the set mailed for 20 cents.

VERBENAS—Twenty-four varieties, mostly Mammoth. A splendid mixture.

CARNATIONS—Six good cut flower sorts: Portia, Hine's White, Tidal Wave, Grace Wilder, Buttercup, L. L. Lamborn.

Trade List sent on Application.

Prices and Quality of Stock will please you.

ALEX. McBRIDE,

ALPLAUS, N. Y.

COLEUS.

ROOTED CUTTINGS.

I can supply TEN best varieties, in any quantity, 75c. per 100; \$6.00 per 1000.

CASH WITH ORDER.

Also GERANIUMS and ALTERNANTHERAS.

SEND FOR PRICE LIST.

S. B. FIELD, Roselle, N. J.



ROSE HILL NURSERIES.

New Rochelle, N. Y.

NEW AND RARE PLANTS,

HARDY PLANTS,

Orchids,

Palms,

Ferns.

CUT ORCHIDS AT ALL TIMES.

ORCHIDS.

Established and Fresh Imported plants, mostly useful for Cut Flowers, at very low prices.

Write for our Price List.

FREDERICK MAU,

P. O. Box 322, SOUTH ORANGE, N. J.

STRONG AND HEALTHY ROSES

2-inch, best varieties, 100 or 1000.

MARGUERITES: PETUNIAS; ABUTILON GOLD FLEECE; PRIMULA OBSCURA; AZALEA; CINERARIA. Hyb. RIDA. ENGLISH IVY; GERMAN IVY;

CARNATIONS. Rooted Cuttings Standard Vars. CHRYSANTHEMUMS. Rooted Cuttings Standard Vars. Write for prices.

PROBST BROS. FLORAL CO.,

1017 Broadway, KANSAS CITY, MO.

The Climbing Perle.

During a recent visit to Flushing I was very much pleased with the climbing Perle des Jardins as grown by "The John Henderson Company." This, as its name indicates, and as readers of the AMERICAN FLORIST are aware, is a sport from the Perle, and shows all the characteristics of its parent. It will undoubtedly prove of much value to all who grow or admire climbing roses. It vigorous growth, charming color and freedom of bloom will undoubtedly win it a place at the head of the list of climbing roses.

Mr. Anderson is also enthusiastic over the merits of a new ever-blooming gardenia, of which they have control. This will probably prove a valuable acquisition. In New York gardenias are becoming a very fashionable flower for boutonnières, as they have long been in England, and certainly no flower is more suited for the purpose. They are of very simple culture and should be more generally grown. P. M. P.

Scarborough, N. Y.

The Poinsettia.

ED. AM. FLORIST.—Will some reader of the FLORIST please give best methods of growing the poinsettia? The principal thing that bothers me is to keep the leaves from falling off. D. W.

Plants and Bulbs.

I have the following plants and bulbs in large quantities and offer them at very low prices to make room for other stock. They are all strong and mostly out of 2-inch pots:

Acyranthus, 2 sorts	2½ cts
Agaratus, 2 sorts	2 cts
Antennaria Coronaria	3 cts
Asterium Picturatum	5 cts
Begonia, flowering sorts	3 to 6 cts
Begonia Rex	10 to 15 cts
Clerodendron, 2 sorts	5 cts
Cupheas, 2 sorts	2 cts
Cheonostema bipinnata	5 cts
Crape Myrtle, pink	5 cts
Coleus, best bedding sorts	2 cts
Carnations, 15 best forcing sorts	3 cts
Dracena Indivisa, large	10 cts
Fuchsia, sorts	3 cts
Fuchsia, single	2 cts
Feverfew, dwarf	4 cts
Hydra carnosa, strong	5 cts
Hydra carnosa, variegated	10 cts
Heliotrope, 4 sorts	3 cts
Ivy, German	3 cts
Jessamine, 4 sorts	5 cts
Lobelia, 2 sorts	3 cts
Lion's tail	2 cts
Moon vines	4 cts
Neiromorpha Gracilis	3 cts
Pothos Aurea	5 cts
Plumbago Capensis	4 cts
Pilea, 2 sorts	2 cts
Ruellia, 2 sorts	3 cts
Salvia, 3 sorts	3 cts
Santolina	3 cts
Geraniums, best bedding sorts	3 cts
Geraniums of 1888	3 cts
Geraniums of 1891	3 cts
Geraniums of 1892	3 cts
Geraniums, Ivy leaved	3 cts
Geraniums, scented	3 cts

BULBS.

Caladium esculentum	3 to 5 cts
Cannas, mixed	2½ cts
Cinnamon vines	2 cts
Cladiolus, mixed	1 ct
Richardia maculata	3 to 5 cts
Tuberose, best northern grown	1 ct
Tigridis, red	1 ct

All securely packed at above prices.

E. HIPPARD, Youngstown, Ohio.

SPECIAL OFFER TO THE TRADE.

	Per 100	Per 1000
ANEMONE Pulsatilla	\$2.40	\$20.00
IRIS PAMPHILUS Franziska	4.00	40.00
IRIS germanica in 300 of the best vars.	2.40	20.00
Kampania in 300 of the best vars.	2.40	20.00
"Pumila" to 300	2.40	20.00
SPIL-ÆA ASTILOIDES	32.00	320.00
"palmata"	20.00	200.00
"alba"	12.00	120.00

Wholesale trade list of Conifers, Rhododendrons, Fruit Trees, Hardy Ferns, Rock Plants, Ricas, Ferns, Aquatics, etc., free on application.

A. M. C. JONGKIND CONINCK,
Royal Tottenham Nurseries,
DEENSWAART, NETHERLANDS.



DREER'S MAMMOTH VERBENA SEED.

NEW CROP NOW READY.

Choiest mixed varieties in the brightest colors. Per trade pack, 50c.;

1/2 ounce, \$1.25; per ounce, \$2.50.
Seedling Verbena Plants are now preferred by the leading florists to cutting plants because of their vigor and freedom from rust. The strain we offer is selected with especial reference to bright and salable colors.

COBEA SCANDENS	per oz. \$.75
SMILAX SEED	per pound, \$12.00; per oz. 1.00
CENTAUREA CANDIDISSIMA	per 100 seeds, .50
GYMNOCARPA	per oz. \$1; " .50

Preliminary Flower Seed List to the trade of seasonable seeds now ready; mailed free to the trade.

HENRY A. DREER, PHILADELPHIA.

50,000 READY NOW. 50 VARIETIES.

Strong plants, 2½-inch pots..... \$1.50 per 100; \$2.00 per 1000
Rooted cuttings..... 1.00 " " " "

Our Verbena this year are the finest we have ever grown.

No Rust or Mildew.
Packed light, and satisfaction guaranteed. Sample on receipt of 50 cts.

J. L. DILLON, BLOOMSBURG, PA.

Verbenas Now Ready

ABSOLUTELY FREE FROM DISEASE

	Per 100	Per 1000
Mammoth, strong 2½-in. pots	\$4.00	\$35.00
General Collection 2½-in. pots	3.50	25.00
Mammoth Set Rooted Cuttings	1.25	10.00
General Collection Rooted Cuttings	1.00	8.00

Address J. G. Burrow,
FISHKILL, N. Y.

VERBENAS.

STRONG PLANTS, 2½-INCH POTS.

\$1.50 per 100; \$2.00 per 1000; 500 at 1000 rates; in special order, \$3.00 per 100; strong rooted transplanted cuttings, \$1 per 100; \$7 per 1000; 500 at 1000 rates, provided too many of a sort are not wanted. Cash with order. Transplanted cuttings, by mail, 10c. per 100 extra. Orders booked for future delivery, provided 10 per cent. is sent with order.

W. B. WOODRUFF, Westfield, N. J.

TOBACCO STEMS FOR FLORISTS.



For Sale, packed in bales 200 to 250 lbs.

No Charge for delivering to depots.

PRICE:
\$1.00 per ton, \$1.50 per single bale.

ADDRESS P. C. FULWEILER,
923 Arch Street, PHILADELPHIA, PA.

Dry Tubers of Tuberous Begonias.

Shades of red in mixture, per 100, \$5.00.
Less than 25, 6c. each. A few double scarlet propagated by cuttings, 10c.

ROOTED CUTTINGS VERBENAS, for delivery Feb. 15 and after, only good vars., per 100, \$1; 1000, \$9.

BRAUER & RICHTER, McConnessville, O.

For Wild Smilax, PALMS and PALMETTOS.

FOR DECORATIONS

Write to
A. C. OELSCHIG,
SAVANNAH, GA.



MUSHROOM SPAWN

GENIEE MILLTART

10 to 25 lbs. \$1.00 to \$10.00

\$1.20 \$2.12 \$5.00 \$10.00

JOHN GARDNER & CO.

PHILADELPHIA, PA.

Foreign Grape Vines for Graperies.

Splendid one and two year old Vines, true to name grown by an expert. List of varieties and prices mailed on application.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

VERBENAS.

PERFECTLY FREE FROM RUST.

20 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$30.
Rooted cuttings of same, 100 \$1; 1000 \$9.
Fine stock Heliotrope, 2½-inch, \$3 per 100.
Double Fringed Petunias, 12 vars., 2½-inch, \$4.00 per 100.
Adiantum Cuneatum, Decorum and Gracillimum, 5-inch, strong, \$15 per 100.
Primrose, double, per 100 \$12.00.
" single, per 100 \$8.00.
Obconica, per 100 \$6.00.
Geraniums—latest Novelties.
Latania borbonica, 5-inch \$4.00, 4-inch \$3.00 per dozen.
Miscellaneous stock of all kinds.

ROSES.

Mad. Hoste, La France \$5.00 per 100.
Duchess of Albany \$5.00 per 100.
Gentiers, Perles, Mermet, Bou Silences, Brides, Niphetos and 50 varieties of monthly roses, \$4.00 per 100; \$5 per 1000.
H. P.'s purchaser's choice, \$6.00 per 100 or \$60.00 per 1000.
H. P.'s, our choice, \$5 per 100 or \$40 per 1000.

GEO. W. MILLER,
1748 N. Halsted St., CHICAGO.

VERBENAS.

—STRONG AND HEALTHY.—

Ready for immediate shipping. Per 100 Per 1000
General Collection 2½-inch pots..... \$5.00 \$25.00
XX Mammoth Set, 2½-inch pots..... 4.00 30.00
General Collection Rooted Cuttings..... 1.00 8.00
Ampeleopsis Vetchil, strong plants..... 8.00 75.00
Begonia Rex Types, 4½-in. pots \$8 & 12.00
Violeta M. Louise, rooted cuttings..... 1.25 10.00
Heliotrope in variety, rooted cuttings..... 1.25 10.00
Coles in variety, rooted cuttings..... 1.25 10.00

WOOD BROTHERS,

(Successors to L. C. WOOD & BRO.) FISHKILL, N. Y.

"Nothing Suc-ceeds like Success."

HUGHES' (SOLUBLE) INSECTICIDE FOR FREE OIL

Florists and Nurserymen Should not be Without it.
Dog and Bird Fanciers should all use it.
Housewives should use it as a Disinfectant, Bleacher and Cleanser when washing Under-Linen.

Sold by Seedsmen and Chemists, 16 Ed. 2s 6d, & 4s 6d; 1/2 oz. 1s 6d; 1/4 oz. 1s 6d, or less in larger quantities.

A treatise on Fire Tree Oil as an insecticide, its application to Plants and Animals, sent post free on application to the manufacturer, addressed to:

E. GRIFFITHS HUGHES, Victoria St., Manchester, England,
WHOLESALE from all the London Seed Merchants and Patent Medicine Houses.

NEW YORK: A. Rolker & Sons.

5,000 Spirea Japonica, fine clumps, per 100, \$1.50.
3,000 Gen'l Jacq. Rose plants, 4-in. pots, \$1.00, \$6.00.
Coles in variety, rooted cuttings, per 100, \$7.50.
—Golden Boder & Golden Veranachell, \$10.00.

JOHN RECK, Bridgeport, Conn. J

TUBEROUS BEGONIA SPECIAL.

OPEN LETTER TO FLORISTS No. 3.

Dear Sir:—

The Xmas Garden seemed to please you very well, judging from your many-fold responses. But the January issue will be still finer. A holly branch in colors adorns the cover.

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Foreign Notes.

THE ROYAL HORT. Society of England has appointed a committee to establish a memorial commemorative of the labors of the late Shirley Hibberd.

A FRENCH journal recommends the use of sulphate of iron in a state of powder to destroy moss on lawns. It should be used at the rate of one-half pound of the sulphate to 120 square yards of surface. In a trial at the rate above indicated the moss entirely disappeared in six weeks and the grass had grown with great vigor.

THE EDINBURGH chrysanthemum show was visited by 35,000 people during the three days. There was a surplus of about \$600, though \$1,500 was expended for music in addition to prizes and other expenses.

THE ANNUAL MEETING of the National Rose Society of England was held December 9. During the coming year an early show of ten roses will be held June 23, general exhibition at the Crystal Palace July 4, and Provincial show at Hereford July 16.

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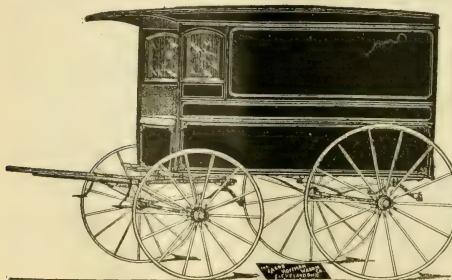
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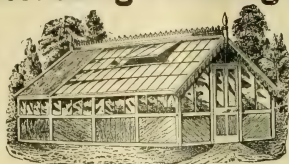
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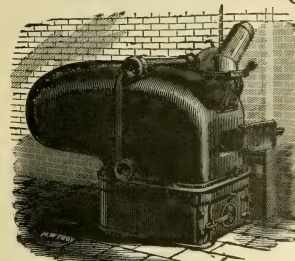


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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VI.

CHICAGO AND NEW YORK, JANUARY 8, 1891.

No. 136.

THE AMERICAN FLORIST

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PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

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Address all communications to

AMERICAN FLORIST COMPANY,

54 La Salle Street, CHICAGO.

Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN C. HERRICK, Toronto, Ont., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

Florists' Hall Association.

Insures greenhouses against damage by hail.
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Gives information to members regarding the financial standing and business integrity of those in the trade.
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American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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RENEW your subscription now for 1891.

SEND in a report of the holiday trade in your city if you have not already done so.

THE Executive Committee of the Society of American Florists will meet in annual session at Toronto, Ontario, next Tuesday.

Long Island Notes.

BY WM. FALCONER.

SCARLET BERRIES—Out in the snow bushes of Berberis Thunbergii, thickly arched with coral fruit, give a warm glow to the gardens otherwise now cheerless enough.

HEAVY SNOW has spread apart and weighed down the branches of your retinoropas, thujas, yews and other nice evergreens, go out among them with a bean pole and shake the snow off the branches, lest your handsome shrubs retain their spread apart appearance after the snow passes away.

LEPTOSYNE MARITIMA from the Californian sea coast is in good bloom. Its large sunflower-like yellow flowers are a welcome addition to our winter blossoms. It is easily raised from seed and six months' old plants bloom freely.

GROWLING.—Page 305.—Please Mr. Evrding, don't deny us one of the pleasures of life—the privilege of growling. Till the Millennium anyway, let us growl.

MISTLETOE—A friend in Tennessee sent me a barrel of mistletoe which I shared with my neighbors, and I was astonished to find many among them who had never before seen the festive parasite, notwithstanding its delightful yule associations. It is not indigenous, so far as I know, on Long Island.

KALANCHOE CARNEA.—It is in bloom again, pink, fragrant and pretty. I presume it has come to stay, it is so easily grown and blooms so full and surely, and will be indispensable to the private conservatory, but I don't think ever much of a market plant.

THE TREES OF NORTH EASTERN AMERICA.—(Putnam, New York.)—If you are too hard-shelled a florist to care anything about our native trees yourself, get this book and give it to your children. It is just such a book as our hearts have yearned for many a day, a plain popular story, with simple but pertinent descriptions, and clearly defined engravings of the foliage and often the fruit of the different trees, enough to enable anyone to distinguish them at a glance. The author is Mr. Charles S. Newhall.

CLITORIA MARIANA.—The Brooks sisters of Sorrento, Florida, send me flowers and seeds of this very pretty little vine. They write, "It grows here in the pine woods and also in the bay-heads where, in the latter place its flowers are of a creamy color on account of shade, and in the former, it is sometimes pink or lavender. It is a very beautiful flower, excelling the sweet pea in loveliness. The flowers are sometimes two inches across. It is a perennial, and begins to bloom in April or May and continues into August." It is not uncommon in cultivation in greenhouses in the north, and although

the pea-flowers are large, showy and beautiful, they are not plentiful enough to justify us in growing it in quantity.

THUINERGIA LAURIFOLIA is a rapid growing vine from India. I have it planted out in a box at the warm end of a greenhouse, and let it spread along and droop from some vines near the top of the house, and it now is in full bloom. It has hundreds upon hundreds of large, pale blue flowers in the drooping fascicles—a beautiful sight. But its only worth is for the decoration of the greenhouse, as cut flowers its blooms are useless, the individual blossoms don't hang on to the clusters for long after they are cut, and they wilt in a day after being severed from the plant; besides, although the color is beautiful by day it is very poor with night light. This plant blossoms full twice a year, in summer and in winter. The only care it gets is watering and cutting it in and keeping it thin as necessary.

AUGUST-STUCK CHRYSANTHEMUMS.—Your reference to these, page 360, prompts me to say that we grow a few hundred of them and find them invaluable for December blossoms. While we encourage stocky growth and substantial foliage, we discourage early blooming by keeping these small plants plunged out in cold frames as long as we can conveniently and safely, usually into November. The plants are in four and five inch pots, and bear from one to five flowers each, and they are good flowers. And they are very handy to stand about in the greenhouses where there is a little empty patch or corner, or to pack to send away, and a joy to the ladies who sell plants at the church fairs, for they are a capital sale for this purpose and in bloom at the proper time. Mrs. Langtry, Moonlight, Christmas Eve, Hon. J. Welsh, Necesia and Frank Wilcox were among the latest we had.

CYPERUS PAPYRUS, THE EGYPTIAN PAPER REED.—At Staten Island, the other day, I noticed that Mr. Tricker was raising it from seed, he had two large flats filled with nice little seedling plants. Planted out in summer in deep rich open soil kept abundantly moist, it grows rapidly and makes a very imposing clump in the flower garden and is very appropriate in the vicinity of water. Although often treated as purely an aquatic, the finest specimens of it I have ever seen were planted out in the open garden with cannas and musis.

NYMPHOLEA ZANZIBARENSIS.—Mr. Tricker, who also makes a specialty of fine flowering aquatics, showed me some shoots of this tropical pond lily at rest. "But, indeed," he remarked, "I don't care much whether I save them or not, because I can get it up so readily from seed, and seedlings bloom freely the first year."

NELUMBUM SPECIOSUM, the Egyptian

Lotus is hardly with him in the open air tank basin, but he is careful always to have the water deep enough that the ice never forms thick enough to come within reach of the tubers. In this same way I have found *Nymphaea flava*, the Florida yellow pond lily, and *Aponogeton distichyon*, the delicious Cape of Good Hope pond weed, also hardly.

MIGNONETTE.—Mr. Tricker nips out the point of the stout main shoots so as to get well developed side shoots; and in the case of weak main stems he rubs off the side branches in order to invigorate the leader. He likes Machel.

ELÆAGNUS LONGIPES will probably be pushed considerably next spring, and it deserves to, for it is a highly ornamental and useful Japanese hardy shrub. But we have four names, viz. *longipes*, *edulis*, *Simoni* and *umbellatus* and two distinct plants and they all seem to be very much mixed up together, and in this country so far as they have come under my notice, all have been grown as *longipes*. Of course our nurserymen and florists import a deal of young stock from Europe and many rely upon the names in the European nurseries. And here is a case in point. A firm who has sent thousands of *elæagnus* to this country has the genuine *longipes* under the name of *edulis*, and this is all right for *edulis* is a syn. of *longipes*, but the same firm has *E. umbellatus* under the name of *longipes*, and it is here where the trouble comes. The true *longipes* is the dense bushy grower which begins to bear fruit when two years old and only two feet high; and the *umbellatus* (or *Simoni*), as I have it from one source) is the vigorous willow-like shrub that often attains a height of ten feet without showing the least inclination to bear fruit. *Longipes* is the better species by far.



One Dollar Each for Carnation Flowers.

Yes, I did tell Ed Lonsdale that carnations (Divine flowers) will be produced four inches in diameter and that they will be sold for one dollar each within eight years. I think I did say 10 years, but I will take off two years.

Somebody says they have carnation flowers already three inches in diameter. That is good, very good, but carnations are not modeled out of clay directly, or my four-inch flower would be figured in the A. F. next week. To obtain a flower simply four inches in diameter is not a difficult task; in fact all the Malmaison varieties are fully four inches in diameter when well grown, but they are not what my four-inch carnation ideal is.

Here is my model:

First. The flower is to be not less than four inches in diameter. The petals must be thick and regularly disposed. The color, any color. It must have a decidedly sweet perfume.

Second. The calyx is to be not less than half the diameter of the flower; it must be sufficiently large so as not to burst during the period of the petals emerging from it.

The stem must be in proportion to the size of the flower, and long enough to be cut not less than eighteen inches long.



BUNCHING CARNATIONS

The lower end of the stem not thinner than an ordinary lead pencil. The stem to be clothed with leaves as are the best varieties to-day, excepting that the lower leaves are to be eight inches long, one-half inch wide, covered with a glaucous surface, which only carnations have. The leaves to be curved in that lovely way already possessed by the Divine flower.

Such flowers will sell for \$1 each.

I will further predict that we shall have exhibitions where carnations will be the leaders and that will be within six years.

There is a brilliant future for the carnation and I hope I may live to make at least one more brick for the structure.

JOHN THORPE.

Bunching Carnations.

Bunching carnations seems a simple matter enough, yet we often find them resembling more a ball of color than a bunch of flowers, or as a noted grower (who delights in seeing his favorite flower at the best advantage possible) says, "they are pulled, the flowers made even carefully, and then tied up close like a broom."

Now this is rather a detriment to their sale, and as long stemmed carnations are being used more and more every year, it is a matter of wisdom on our part to not only grow them to the highest perfection, but to present them to our customers in an attractive shape.

The grower sending to a retailer or commission house should put his blooms in bunches of twenty-five. Fifty makes the bunch too large and heavy. There

will of course be a difference of a few inches in the length of stems. Now in place of making the flowers even make the bottom of the stems even and tie as low down as possible. Tied in this manner a bunch being held up for inspection shows each individual flower and is fully 50 per cent more satisfactory than the compact tightly bunched one.

When carnations are four inches in diameter and bringing a dollar a piece it will be necessary to put a few sprigs of foliage in the bunch to even matters up a bit. A little foliage is a great improvement now, but until dealers are willing to count each sprig as a long stemmed flower no grower could afford to use them at the prices they are often sold.

ALBERT M. HERR.

Carnation Lamborn.

I have recently received several private letters calling my attention to an article which appeared over my name in the *AMERICAN FLORIST* of October 1 last, in which I made a statement to the effect that I had said good bye to Hinze's White carnation and instead had somewhat largely planted Lamborn. Most of these letters also remind me of an additional remark made in my article which appeared in the *FLORIST* November 13, in which I emphasized the above in a forcible manner by saying that up to that time I was more than pleased with the move and considered it the best one that I had made in carnations in a long time. One of the letters referred to came from England, the others mostly from distant points and all expressing such intense interest in the subject that it would have



SABAL PALMETTO

afforded me great pleasure to have answered each separately, but as that would have been quite a tax on my time I ask the indulgence of the FLORIST to permit me to answer them all together as briefly as possible through its pages.

The two side benches of my new iron house are occupied with this variety, also the largest part of a side bench in another house, there being altogether a little more than 3,500 plants. From this number of plants, since October 1, I have gathered within a mere trifle of 10,000 flowers, mostly long stemmed. These flowers with the exception of 1,500 which I shipped to New York have been sold and used in my own store. For those which I sent to New York the consignees allowed me \$2 per hundred, less of course the necessary expenses, but the long stemmed ones sold in my own store have all brought 50 cents per dozen, except the day before and on Christmas day, when the price was 75 cents per dozen. But quite a considerable number were gathered without stems, for making the groundwork of funeral pieces. Being anxious to get an idea of what these

short or stemless flowers netted me, I requested the young man in my store who superintends all the making up to keep an exact account with several floral pieces, charging everything against the piece; then allowing a fair valuation for the roses, hyacinths, freesias, mignonette and other flowers used in finishing the work, cost of frame, moss, time and everything else, we found that the carnations in nearly every instance netted a little over ten cents each. Now as these flowers used for funeral work formed quite a considerable part of all those gathered, although many of them so used are gathered with long stems, I have found after charging the 10,000 flowers with every item of expense that it is possible to think of, that they have netted me five cents each or \$50 per 1000, or close on to half the actual cost of my new iron house. And what is more, I am thoroughly satisfied that my bank account fully sustains this calculation.

The question now is, will Hinze's White or any other of the older sorts do as well or anything like it? I know that last year and other years when I was grow-

ing and depending in a great measure upon Hinze's White, I had lots of them when the crop was on, but between the crops I had to buy a good many thousand flowers at a cost most of the time of \$3 and \$4 per hundred.

Another pleasant feature to contemplate in Lamborn is the fact that the 10,000 flowers gathered from my plants are not missed, in fact no person to look at the beds would suppose for one moment that any considerable number of flowers had ever been gathered from them; the mass of buds in the several stages of development remain just about the same, or if anything still more numerous than a month or two ago. Another important and exceedingly valuable feature of this variety is its adaptability to culture on side benches near the glass; the greatest height of the grassy part of the plant is about eight inches, while the extreme height of flower stem is fifteen inches, and the stems are thrown up singly and in most cases with only one bud, no sticks or tying up being necessary.

I think after the above explanation that Brother florists will agree with me that I have every reason to be well pleased, yea, more than pleased with the results of just saying good bye to Hinze's White and substituting Lamborn in its place. At the present time there is not a single plant of Hinze's White on my place and hereafter I have no room for that carnation.

Recently I have been favored with pleasant calls from several Brother florists, most of whom have made the Lizzie McGowan the main object of their visit, but all have expressed themselves as greatly pleased with Lamborn, and in most cases are losing no time in providing themselves with stock. My last visitors, just before Christmas, were Messrs John N. May, of Summit and Robert Craig, of Philadelphia. Neither of these gentlemen are over and above demonstrative, but they are exceedingly practical, and Mr. May can detect the good qualities of a carnation as readily as he can those of a rose which his keen, well trained eye may rest upon, but Mr. May does not pretend to be a carnation grower, roses are his forte with a great big F. Somehow or other I got the impression that Mr. Craig was highly pleased with Lamborn, but then again I may be mistaken, because as I said before, he is not over demonstrative, but when I passed up out of my flower cellar a pot containing two or three hundred large pure white flowers of this variety, I thought I did detect a satisfactory twinkle in his eye but could not be certain as he only ordered five thousand plants, and then again these gentlemen came to see Lizzie McGowan. H. E. CHITTY.
Paterson, N. J., Dec. 26, 1890.

Sabal Palmetto.

Our illustration is from a photograph of a specimen growing in the open ground at the Bloomingdale Nursery, New Orleans. It was raised from seed by Mr. J. Fonta, the proprietor of this nursery. It is 19 years old, and now 30 feet in height.

Tuberoses at Christmas.

To have tuberoses at Christmas, get the bulbs in October, and keep them in a dry, warm place buried in tobacco stems until the following August. Then plant as usual and they will be in full bloom at Christmas. T. M. C.

Gypsophila in Floral Arrangements.

The accompanying illustration is engraved from a photograph sent us by Mr. Richard Bagg, Bridgeton, N. J. He calls attention to the effect the *Gypsophila paniculata* adds to the arrangement, and says: "Several customers have taken quite a fancy to its sprays of tiny flowers, and one had the accompanying photograph taken. I do not think the *Gypsophila* would force well, for its root is large and goes down in the earth like a Chinese yam, but it is useful to have planted outside. It is perfectly hardy. Seed sown now under glass will produce young plants that will set out next spring will bloom next summer. But the plants will not attain full size until the following season."

Canna Star of 1891.

This is a dwarf gladiolus-flowered canna and the finest of its race that I have ever seen or know anything about. It was raised by M. R. Catlin, of Richmond, Va., and sold by him to Hallock & Son, of Queens, L. I., who in turn sold it to J. L. Childs, of Floral Park, who now holds the stock of it.

About the end of October '89 Mr. Catlin sent me cut flowers of this canna, he then proposed calling it "Virginia Dare," and under this name I described it in the *FLORIST*, page 161, November 15, '89. He also presented me and Mr. W. R. Smith of the U. S. Botanic Garden at Washington, each with a small plant. I potted mine and kept it in a warm greenhouse and by Christmas it was in bloom, and it has never since been out of bloom.

The plants are dwarf and stocky and very vigorous, about two feet high indoors and 3 feet high out of doors; every shoot bears a spike which in time produces three to five laterals, each of which carries from thirteen to twenty-seven blossoms; the well matured open flowers are about four inches across with petals an inch wide, and the color is vivid orange scarlet with a slight border of golden yellow and yellow in the throat. And in the greenhouse in winter the color is brighter and better than it is out of doors in summer, and the individual flowers last longer.

As soon as I found out its great excellence I advised Mr. Catlin to hold on to it, keep quiet about it and multiply it with all his energy till he had 25,000 or 50,000 plants, then give it to the people. And to assist him in this was the sole reason for my absolutely refusing to tell the several florists and horticultural gentlemen who saw and admired it in bloom here last winter, one word about it or its origin. But its fame spread and so deep an impression did it make that last February J. L. Childs offered me \$1,000 for my one plant, but as it was not mine to give he couldn't have it.

Last April the Hallocks bought the stock, 300 plants of Catlin, and during the summer grew them out of doors on their bulb farm at Queens, and where they were seen by representatives of most all the leading florist and seed firms in the country and it is generally known in the trade as "the Hallock" canna.

In May I divided my plants into three parts and planted them out, and in September I lifted and redivided them making thirty plants, and these are now in pots in the greenhouse and blooming beautifully.

For a time I was afraid there might be some mistake about the identity of this fine canna, especially as the description



GYPSOPHILA IN FLORAL ARRANGEMENTS

of Madame Crozy fitted it pretty exactly, but on comparing it with excellent large specimens of Madame Crozy in bloom, kindly furnished me by Peter Henderson & Co., and Henry A. Dreer, I am satisfied they are quite distinct. Both, however, resemble each other in habit, growth, flower spikes and large-sized blossoms, but the color of the Star of '91 is more brilliant and velvety.

And I am inclined to believe that a year or two hence this canna will be grown in quantity by florists for cut flowers in winter; certainly, I will grow it. But let me here remind you that all of the flowers on a canna spike of any variety do not open at one time, and before those at the end of the raceme expand the first open ones begin to drop; also before the last lateral is in bloom, the first raceme of the spike is out of bloom.

W. F.

Chrysanthemum Beacon.

This is a full double, creamy white flower with strong stems. The outer row of petals are tubular and reflexed, while those nearer the center are incurved with convex tips. Winner of the first prize, silver medal, of the Mass. Hort. Society, Boston, 1890, for the best seedling.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XXIII.

LIABILITY OF SHIPPER AND CARRIER.

To compare you to something in your own line, I should say that while your cheeks have the color of a red, red rose, your language is entirely lacking in the fragrance of moderation. Excited are you? Well calm yourself. Too much temper is like too much compost, it forces things but it burns them up in the end.

Don't be so much like a sensitive plant. Like to be a Scotch thistle would you? Well, now that I have heard your story, please cease that pendulum motion

of your body and I'll attempt to elucidate the point.

Whether the shipper or carrier of goods be liable for damage to them depends upon where the primary negligence lies. For instance, if a dealer in glassware ships me a box of cut glass goblets and when they reach me half of them are broken, either the shipper or carrier or both may be liable. If faulty packing could be proved, the shipper would be liable, for the carrier cannot remove the covers of cases to ascertain whether the goods are properly packed. All that the carrier can exact from the shipper is that he disclose the nature of the goods, by such plainly written or printed directions on the case as "Keep Dry", "This Side up with Care", "Glass with Care", "Keep Warm, Liable to Freeze", etc.

But no matter whether the negligence lies with shipper or carrier, under no circumstances may the buyer be held liable. The law exacts that goods must reach the consignee in good condition. There is one exception, however: The buyer must remove the goods from the freight house promptly, for after the lapse of a reasonable time the carrier's liability as carrier ceases and he becomes merely liable as a warehouseman. Quite a different thing, by the way.

Now let's get down to your case: A ships you one thousand tuberose bulbs via B's line of boats or railway. It was A's duty to mark them "Perishable, Keep from Cold" if the shipment was made in the winter, and if he fails to do so and the bulbs are frozen your redress is against the carrier, who in turn has a cause of action against the shipper. If, however, you neglect to remove the bulbs from the freight house upon their arrival and a cold snap sets in, then you become the negligent party and must stand the loss. But only in the last-mentioned case could you be held for the damage.

Now as you suggest, the negligence might plainly be with the shipper. For instance, if he were to ship you per express one box of cut flowers and fail to pack them properly you couldn't hold



CHRYSANTHEMUM BEACON

the express company. Your redress will be against the shipper.

But let me warn you that the law will not impose a hard condition on a carrier, by which I mean this: Suppose you ship a box of cut flowers and give notice on the box, "Keep in even temperature," but the weather changes and the flowers are ruined. You'd have no cause of action against the carrier, any more than you would if you sent a child by express and it caught the measles en route.

Thanks, I'm glad you spoke of that. A shipment of cut flowers arrives and your place is closed, they are taken back to the company's office and are ruined. You are the loser except you could prove that the express agent put the flowers carelessly in a warm place when he might have put them in a cool one.

Now, as you know, a carrier may limit his liability, but he must bring such limitation to the shipper's knowledge, otherwise it will not be of binding force upon him. No carrier may be held liable beyond the end of his route.

Now in your business your merchandise often being of a perishable nature you should exercise extraordinary care and diligence both in packing your goods and in plainly marking the case or box, so that the carrier may understand fully the nature of the contract he is entering into. There your liability ceases and unless some act of God or the public enemy destroys or damages the goods you may

not be held liable for their loss. The carrier must perform his contract with the limitations above referred to.

Now there is another side to this question. Suppose the carrier were not a common carrier but a mere private carrier, that is, suppose you send a thousand bulbs of some kind to a customer by a man specially hired to do the job. This would be quite another thing. You would be obliged to show negligence before you could hold him liable for loss by freezing or otherwise, and if he did it as a favor, without pay, then gross negligence would need to be shown, but no public or common carrier like a steamboat line, railway or express company may plead the negligence of their own employees. They are always liable except as above set forth. But one thing you must always do, give immediate notice of the damaged condition of the merchandise both to shipper and carrier.

UNCLE BLACKSTONE.

Society of American Florists.

Members of the society who paid for a photograph for group pictures taken at Mrs. F. B. Hayes' at Lexington and who have not received their pictures up to present date, are requested to forward their names to Wm. J. Stewart, 67 Bromfield street, Boston, as an effort is to be made to compel the party to fulfil his obligations.

Management of Exhibitions.

MR. EDITOR:—Noticing your request in a recent issue for a full discussion on the subject of the management of exhibitions I venture a few remarks for that purpose. Ofcourse I have reference to a flower show. The management of a flower show, and all those who do and who are invited to in any way contribute should bear in mind that the show of flowers is an educator of the public in that particular direction.

But like the professors in our colleges, we florists must be supported and must see to it that the good we are doing in the world is being paid for. Our store windows help to educate the public. We do not dress our windows daily with that benevolent object in view, we do it to show those who have cultivated the taste for flowers that there is the place to gratify their desires, but in doing so how many hundreds of others in a day have been impressed by our display of beauty. We have sown the seeds the harvest of which will, though perhaps indirectly, surely bring us full compensation for our labor, and those same flowers brought a fair profit. May the florists' window never be curtained.

The flower show is but a step in the evolution of our business higher up than our show window. During the last ten years or more our windows have educated such an army to their level that there is a

large class ready and anxious for promotion. That this is a fact the increased attendance from year to year at the different flower shows certainly proves.

Now a word upon the management of shows, and it is upon the management in arranging the preliminaries that the success of the venture largely depends. It is the business of the management to arrange matters as nearly as possible so that each contributor will receive a fair price for all he does, and also to give each of their possible exhibitors an opportunity of doing that which he can do best. It is very well to call the exhibition a chrysanthemum show and make them a leading feature while they are so popular, but the management must be true to their calling and not overlook a single opportunity of adding any flower or plant that is beautiful, whether they be expensive or low priced, and it would certainly be to our advantage to make better and more use of some of the cheaper flowers than we do. They should know the growers of their neighborhood and contrive to have their premium list so arranged as to bring out the strongest points of each so that each one will feel paid for his exertions. No one should be expected to work for nothing. That is the object in awarding first, second and third prizes for the same thing. The management must consider themselves for the time in the show business, and must pay for all services, although it is done by the prize system in place of contract. Of course this is easier to say than to do, but it appears to me to be the only way of getting all there is to be had. The next task is to arrange the whole so as to bring out the beauty of each feature without injuring any other. You may be sure that if you can get the best of what surrounds you and show it off to advantage the public will appreciate it and pay the expenses by an increased attendance, and the benefit will be mutual. But who will have charge of the management? It is generally a committee appointed by a club or society. They overwork themselves and their compensation is the kicks and grumbling of every one who has any criticism to make. As the exhibitor is tempted to exert an effort to win the first prize, why not allow the management 50% of the net profits. C. B. W.

Andromeda Speciosa.

This is a very pretty little shrub found wild along the borders of swamps and ponds in low pine barrens from North Carolina to Florida; but it is perfectly hardy in cultivation as far north as Boston. European botanists call it *Zenobia speciosa*.

It grows about 3 to 4 feet high and is of slender, arching, bushy form. The oblong leaves are plain green, or green above and silvery white below, or silvery white both above and below according to variety, and these varieties according to kind are styled by nurserymen *A. speciosa*, *A. s. var. pulverulenta*, or *A. s. var. pulverulentissima*. The flowers are pure silvery white, open bell formed, nearly half an inch across, and produced in fasciated racemes. It loves a somewhat moist soil, shelter, and partial shade (but not overhead from noonday sunshine). It comes into bloom with about the 28th of May and the flowers last through June.

This beautiful little *andromeda* is one of the best twelve hardy shrubs for florists' use mentioned by Mr. Jackson Dawson at the Boston convention (see Proceedings, page 98). And much of its



ANDROMEDA SPECIOSA. FLOWERS WHITE.

[REPRODUCED FROM GARDENERS' CHRONICLE]

popularity about Boston is due to the bunches of its beautiful flowers annually exhibited by Mr. Dawson at the exhibitions of the Mass. Hort. Society.

W. F.

Exochorda Grandiflora.

This is a very beautiful garden shrub from Central China, and used to be known as *Spiraea grandiflora*. The habit of the plant is one-stemmed, with a broad, bushy, symmetrical round top about 6

to 9 feet high, and firm, wiry wood. The flowers are large, white, in small racemes from the axils of the leaves on the one-year old wood; here they begin to open about the 8th of May, are at their best about the 12th, and pretty well over by the 18th. As cut flowers they are not very satisfactory, they drop off too quickly, but it is with this *exochorda* as it is with *Deutzia gracilis*, cut flowers from plants forced in the greenhouse in winter last longer than do those from outdoor plants in May.



EXOCHORDA GRANDIFLORA; FLOWERS WHITE. [REPRODUCED FROM GARDENERS' CHRONICLE.]

Because of the difficulty experienced by our nurserymen in propagating the exochorda in large quantity it has always been a rather scarce shrub in gardens. It is generally propagated from seed, but seeds are hard to get, and by layers and splice-grafting on pieces of its own roots. Some nurserymen, however, Hoopes, Brothers & Thomas, for instance, have large seed-bearing plants of their own. As this shrub grows exceedingly well in the southern states, I am inclined to think that it would be to the advantage of some of our southern friends to grow it for its seed.

The exfoliation of its bark is a peculiar characteristic of this shrub, but the idea that this is caused by enervation is erroneous; this is as natural to the exochorda as it is to the plane tree.

Exochorda Alberti is a new species from Central Asia and recently introduced to cultivation. Apparently it is quite hardy here, but our plants have not yet blossomed. The leaves are larger and broader than those of *E. grandiflora*. The blossoms are also white. It is highly recommended both by French and German nurserymen.

W. F.

The Poinsettia.

In response to the query in last issue of the FLORIST I give my method of treatment, which is as follows:

Stock that has been resting through the winter, if healthy, is shifted up into convenient sizes of pots, not too large, shaking off all the soil. Use a soil composed of good rotten sod three parts, rotten cow manure one part, and sand one part. If the plants are placed in a good sunny position and syringed regularly they will soon break, producing plenty of shoots. Give them a night temperature of 60° and a day temperature of 75°. These shoots should be taken off close up to the old wood and struck in the propagating bed, keeping well shaded and maintaining a moist atmosphere. Or they may be struck under hand-lights. The temperature should be the same as in the rose propagating house, only warmer overhead. The best time to commence is in April and May, starting your plants during these months or even later. Take the cuttings about four inches long or longer. After striking root, if potted off in the

usual way and grown in a rose house temperature, they will soon be ready for planting in benches from 4-inch pots. Or they may be kept in pots, but never allow them to become pot-bound. If grown in a temperature of 60° at night and 75° during the day, they can be carried through without losing a leaf. The dropping of the leaves is usually caused by too low a temperature or allowing the plants to become pot-bound before the bracts are set.

If required late, say for Christmas, grow the plants out of doors during the summer, housing early, never allowing them to become pot-bound. Give the last shift in September. A little liquid manure will help them along after they have set the bracts. I have grown late July struck plants this way and flowered them in 5-inch pots, the bracts being of immense size and the plants dressed down to and over the pots with foliage.

JOS. REEVE.

Cleaning Brick Flues.

C. P. asks for some way to clean the old brick flues without taking down the

flue at intervals. In volume 3, a subscriber related how he had accomplished this by making use of pussy. He tied a cord to pussy's leg, placed her in an opening at one end, and shut her in, making the other end the only way of escape. As she didn't propose to stay in she made tracks for the opening and in this way the cord was passed through, then a bag of hay was tied to the cord and drawn through.

Greenhouse Improvements.

A recent visit to the establishment of Messrs LaRoche & Stahl at Collingdale Pa., disclosed the fact that very many improvements have been made since my last call, nearly a year ago. Four rose-houses, each 18x100 and two palm houses have been added, and they are built in a solid block, having merely glass partitions to divide them. This glass partition is no doubt a capital thing, as it gives the front bench nearly as much light as any in the house, and certainly more than in houses that are separated by a solid dark wall. An inspection of these houses will, I believe, convince any one that it is not necessary to leave a space of 10 to 12 feet between houses as is frequently done.

The houses are three-quarter span and are glazed with 16x24 inch double thick glass. One-inch gas pipe is used for the purlins which are supported by truss-rods of 1/2-inch iron 8 feet apart. The rafters used are a keystone pattern, 2x3 inch yellow pine. Steam is used for heating the whole establishment, and the piping is both overhead and under each bench, which system is giving splendid satisfaction here.

A fine, large three-story brick building has also been erected, the first floor being used as an office and the second floor for storage. On the third floor is a large tank with a capacity of 10,000 gallons. The water is lifted by a steam pump, which also supplies Mr. LaRoche with some residence and stables which are in close proximity to the greenhouses. Another new 30-horse-power boiler has been put in, to heat the new greenhouses, office, etc.

Great credit is due to Mr. D. T. Connor, the able foreman at this place, for the excellent condition of the roses in the new houses. One house contains Brides and Hermets, another La France, and a third Papa Goutiers, all in fine condition, and at the time I saw them with a full crop for the holidays. The greenhouses are close to Collingdale station and will repay a visit.

W. W. COLES.

New York.

This has been the poorest Christmas New York has seen for many years. The general uncertainty of the financial outlook made flower buyers cautious. Society people were very quiet, not one half the usual floral compliments were exchanged. An analysis of the trade shows that the middle classes were the principal flower buyers.

Flowers were never so cheap at Christmas before, prices in many instances only reaching half those of last year.

It is more than probable that a much larger business would have been done by all if the public knew flowers could have been bought at reasonable prices, but unfortunately the florist is looked upon as a robber at Christmas and New Years, and people pass the flower windows with a sigh and visit the neighboring candy or jewelry store. It is only natural for growers and retailers to try and get as much as they possibly can for

stuff, but the question to be settled is, do high prices at Christmas tend to benefit our trade?

There were many reputable retailers here who bought very little at Christmas. Why? It was the same answer from all. Their customers would not pay the high prices.

There was a good plant business; flat pink baskets filled with small pink ericas brought good prices, silvered fern baskets filled with growing lily of the valley and white violets was a favorite design. Pandanus Veitchii in white and gilt pot baskets trimmed with silvered ribbons also sold well.

Araucaria excelsa was a favorite Christmas tree for the dinner table. Small orange trees with half a dozen fruit sold well at \$5 each.

Holly was very beautiful and sold well, there being but little left unsold. It was a good year for green stuff as the principal restaurants were all gaily decorated, an item that considerably helped the "green" market. English mistletoe seemed to be "too English" for the American people this year. Besides its English traditions do not appeal to the American heart such a degree as to warrant us in paying \$30 per crate (100 lbs.) for it.

Small roses were very plentiful as were also carnations and violets. Some of the violets seen around looked as if they had been well picked.

Red roses were the favorites and Meteoors and Woottons and Papas had it all to themselves. Beauties were in great demand, and this was the only rose that brought its usual Christmas price, there being no other large rose, with the exception of a few Alexis, in the market.

Lilium Harrisii sold well and were much used in church and other decorations.

Orchids seem to be losing the popularity they enjoyed the last three or four years. There were very few of them used this Christmas.

Gardenias and violets and American Beauties were mostly worn in the street.

Many pretty designs were seen in the windows along Fifth avenue and the principal club houses of the city. Wreaths of mistletoe tied with silvery white ribbon were hung in the windows of the Astor mansion, while the Vanderbilts decorated theirs with handsome wreaths of English holly with a broad wreath of berries in the center of the leaves and hung with cardinal ribbon tied in a Parisian bow.

Crescent wreaths of "Princess pine" with a little basket filled with berries and tied with red ribbon at one side was a novelty sent up by Stump.

Baskets filled with holly and poinsettias and scarlet carnations were much used for table decorations.

Baskets of mistletoe and Cypripedium insigne with frills of sea-green silk de chine made a very pretty combination.

Thorley had his window beautifully arranged with orchids and American Beauties. One of the windows was filled with violets with a background of lily of the valley. He says he has done a larger Christmas business this year than ever, having had to hire another store for his green stuff.

Scallen is noted for his tasty window displays, and whatever he exhibits shows well in his well arranged window. On Christmas day he had his window filled with violets, lily of the valley and Beauties and he did a good business. It was said that Thorley and Scallen were the only Broadway florists whose Christmas trade reached the standard of former years.

The Fifth avenue florists are all complaining, as are also the Madison avenue ones, with the exception of Stump, whose windows were a feast for the eyes. Stump is an enthusiastic lover of window decorations and spares neither labor nor expense in making his windows attractive. He says it pays, for people will naturally go where they see and get fine goods. His Christmas trade has greatly exceeded that of former years.

Johnny Weir is happy. This "Jay Gould of the Flower Market" was in high glee over the condition of the market on Christmas day. He says he bought fine Hermets and Brides etc. for \$50 and \$60 per thousand, one fourth of last year's prices.

Thursday was a beautiful day and many flowers were worn on the street, but we were visited on Friday by a terrific snow storm. Had this storm come on Thursday it is believed that there would have been a panic in the flower trade.

New Year's trade was anything but satisfactory, and tended only to further convince us that its importance in a floral sense is fast declining; to add to its drawbacks this year there was a cold drizzling sleet coming down all day; this in addition to the awful condition of the streets, owing to the heavy snowfall on Friday, made street travel impossible. No flowers were worn on the street, and many a dinner table lacked its usual "Smiles of nature."

There were no decorated ball rooms this New Year, no novel "dance bouquets" and very few "affairs" where flowers were a consideration.

The New York Florist Club intends giving an exhibition of plants, flowers and designs the week preceding Easter. The fact that such men as Amus, May, Thorpe, Taylor, Anderson and Manda, are interested guarantees the magnitude and success of the undertaking.

The Club's annual dinner will be given at Morrello's next Saturday.

The Alpine Florists, 34th St. and Broadway, exhibited a novelty in their windows on New Year's day. It was a basket filled with American Beauty roses frozen in the center of an immense cake of ice. It attracted a great crowd, and I heard the cynic remark, "It was a case of frozen beauties admiring frozen Beauties."

We read in this week's newspapers of the exploits of the notorious Neal in Chicago. "I told you so" is the only observation one hears amongst the florists here.

Wm. Ellis has leased and reopened the Fitzpatrick flower store, 30th Street and Broadway. JOHN YOUNG.

Chicago.

Mr. Bassett wants it understood that the \$100 he lost on the recent Neal was on an old account contracted when there was supposed to be a very considerable financial backing by responsible parties, and not on the latest deals of the "King fakir."

One large florist claims that there was more picking about high prices at Christmas than ever before, in spite of the fact that prices were really lower than they have been at the holidays for a long time. Customers assumed that the prices were high simply because Christmas prices were traditionally exorbitant.

Many amusing stories are told about various growers who "pickled" stock, refusing high prices just prior to Christmas, and then almost giving it away afterward. As one florist puts it, "There were enough violets in the market Christ-



EFFECTIVE GROUPING OF HARDY PLANTS [REPRODUCED FROM LONDON GARDEN]

mas day to pave State street and then leave enough for New Year's."

The horticultural department of the World's Columbian Exposition has not yet been organized, and as Director-General Davis has gone east to remain some time, it may be towards February before the appointment of Chief of the department is made.

The first regular meeting of the Horticultural Society of Chicago will be held at the Palmer House next Saturday afternoon at 3 o'clock.

Mr. O. P. Bassett will spend the remainder of the winter in the south for the benefit of his health.

It is reported that the store at 149 State street will be taken by one of the principal creditors of Neal and that he will continue the retail business there.

Effective Grouping of Hardy Plants.

This beautiful picture of an English garden well illustrates how bold hardy plants can be effectively used in parks and large gardens. The large-leaved plant in front is *Gunnera scabra*, the other beyond it is the Turkish rhubarb, *Rheum officinale*, behind which is the strap-leaved New Zealand flax, *Phormium tenax*, and the grass-like plant behind the *Gunnera* is the hardy bamboo, *Bambusa metake*. The background is made up of trees and shrubs, prominent among which is the variegated box elder (*Negundo aceroides* fol. var.).

Now such finishing off touches as this represents is common here in all large parks and well regulated gardens, but the outer plants we generally use are yucca and hollyhock.

While these European pictures are very suggestive we can not follow them in de-

tail. Sometimes, as in the case of the *Gunnera*, the plants are not hardy here, or, as we have it in the variegated box elder, the trees get scalded and unsightly after midsummer. And many plants are of too brief duration to be eligible, for instance, the Turkey rhubarb has very handsome leaves till after it blooms, then decrepitude becomes evident in the foliage.

We have got to find our own plants. *Bambusa metake* and the variegated *B. Fortunei* are hardy and do well with us; *Yucca angustifolia*, also *Y. filamentosa* in variety are hardy and appropriate; the *acanthuses* although barely hardy live all right if an armful of dry oak leaves is laid over each crown and an old soap box tipped over the leaves in winter; *tritomas* can be saved in the same way; Siebold's plantain lily, in the shade and Thunberg's day lily in the sunshine are also appropriate, and the cut leaved prairie docks (*Silphium*) so despised on the western prairies, fit in here nicely; so do tree peonies, *Crimean* statice, baptisias, and the like. Whatever we use should last in good foliage and character all summer long. *Spirea Aruncus* and *Bocconia cordata* are also occasionally used, so too are the giant knotweeds, *Polygonum cuspidatum* and *P. Sachalinense* and Oriental poppies; but I would disavow the use of the *polygonums* as they spread too much, and the poppy because it dies down too soon. Among grasses *arundo*, *eulalia* and large briza hold the front place for this work.

We have a few shrubs that can be used to capital advantage for foliage effect in the same way, chief among them are the *Mandschoorian* *dimorphanthus*, our southern *Hercules* club, and the fern-leaved form of the sumach, *Rhus glabra*. To obtain a fine foliaged or tropical ef-

fect, *Paulownia imperialis*, *sumachs* of several kinds, *alanthus*, *catalpa* and the like are planted thickly in groups and annually headed down to or near to the ground; the young sappy growths that spring up year after year bear unusually large foliage. But I am not in sympathy with mutilating a large tree to obtain the same end that can be secured with low growing plants quite as good and which need no mutilation.

Tender plants are often used in summer for this kind of gardening, and a very gratifying addition they make. The most appropriate ones are musas, cycads, palms, tree ferns, *eucalypti*, *melianthus*, *cannas*, and the like. And in large parks many plants are annually raised from seed that would fit well for such a situation; they are the large *solanums*, *cycas*, *oil*, *wigandia*, *ferdinanda*, *tobacco*, etc.

W. F.

NEW YORK.—A New York *Herald* reporter fell foul of a Scotch gardener on Long Island the other day and had to cry for quarter. In the *Herald*, December 11, he wrote: "J— D—, a Scotchman, who knew more twenty syllabled names than any man I ever saw before * * * fired off such a volley of Latin names at us that my head swam for an hour. * * * But I cried for quarter and J— D— was merciful."

New Books.

THE TREES OF Northeastern America, by Charles S. Newhall has been published by G. P. Putnam's Sons, London and New York. It is an octavo volume, devoted to the description and illustration of the trees of Canada and of the North-Eastern states of the Union, east of the Mississippi.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 5 Cents a Line, Agate;
 Inch, \$1.40; Column, \$14.00.
 Cash with Order.

No Special Position Guaranteed.

Discounts, 5 times, 5 per cent; 13 times, 10 per cent;
 20 times, 20 per cent; 52 times, 25 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for florists, seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

SHIPPING C. O. D.

Queries recently received indicate that the folly of shipping perishable goods C. O. D. without any portion of the value of the goods having been received with the order, from unknown parties, is not understood by all shippers. That this method of doing business will sooner or later result in loss to the shipper has been demonstrated time and again, and all wise shippers make it a rule not to ship perishable goods C. O. D. unless cash to the amount of at least one-fourth the value of the goods accompanies the order.

A trick that has been successfully worked by shady characters is to order flowers and plants to be shipped C. O. D. then refuse the package when delivered and later buy it in through an agent at a much reduced price. For the shipper when notified of the state of affairs will almost always advise the express agent to dispose of the stuff to the best advantage possible, it being better to stand a partial loss than a complete one, as the flowers or plants would probably be worthless when returned and he would have to pay express charges both ways. And again the express agents have instructions from their company to at once dispose of any such perishable freight when refused by the consignee.

Thus it will be seen that shippers who send goods C. O. D. to parties regarding whose responsibility they know nothing, unless a portion of the price accompanies the order as a guarantee of good faith, invite a loss, and encourage the class of swindlers referred to.

The best way is to have no dealings with an unknown buyer except on a cash basis, until he has supplied satisfactory references, and you have written to each of the references, and had a favorable reply. If you neglect these common business precautions you are pretty sure before long to contribute to the support of a certain class of dand-bents who are on the look-out for just such careless business men.

CREDITS.

In business it is necessary to give credit. Business could not very well be conducted entirely on a cash basis. But the credit system opens a splendid field for the swindler, and credit should be given to would-be customers about whom the seller knows nothing, only after satisfactory references have been given and these references fully verified. And a single reference is always safe.

We will relate the experience told us by the head of a well-known firm in the trade. His concern received a mail order from an unknown buyer. The cash came with the order and it was shipped. Later other and

larger orders came in, each accompanied by cash, and were shipped. Then came an order which the cash did not fully cover, but in view of the buyer's previous good dealing it was sent and the balance billed. Remittance came promptly back, and before a great while, without any investigation of the party he became in a small way a credit customer. Then came from other men in the trade queries as to this party's responsibility. Replies were sent that while knowing nothing especially about the man he had been a liberal buyer and always paid his bills promptly. Soon after this the gentleman was deluged with reproachful letters from those who had inquired about the man, stating that he had beat each one of them out of considerable amounts. The rascal had managed to secure shipments of goods at the same time from each of these parties, had disposed of them as soon as received and left town. It was evident that his entire dealings with the first mentioned party had been to secure a good reference from them with which he might swindle a dozen others.

FLORICULTURE IN THE SOUTH.

A southern florist writes asking for more information regarding the work of the commercial florist, adapted to the climate of the south, and mentions the following matters regarding which he would like the benefit of other's experience.

"Should we build wider houses than recommended for the north, with steeper pitch? Do we not need larger ventilators than at the north? Ought our roofs to be immovable or would it be better to substitute a roof that can be entirely removed? How can the condition of quite warm days and very cool nights be best provided for in heating? Should it be hot water or steam, if the former should we use small or large pipes, overhead or underneath? Is it better to raise our own carnation plants or buy them from the north? How about violets in the summer? What would be the best way to prepare roses for winter blooming here in the south? How would it do to plant in the open ground and cover with specially prepared sectional house?"

Our correspondent adds that he has many more questions that he would like to propound, and calls upon the florists of the south generally to take advantage of the columns of the FLORIST for an interchange of opinions and experiences as the methods of those in the trade in the north are rarely adapted to southern conditions.

We trust that our southern readers will act upon the suggestion and that a start will be made by giving their views upon the matters presented by our correspondent. It is the aim of the FLORIST to supply as nearly as possible the needs of the trade in every section of the North American continent.

THE AVERAGE returns from the Christmas trade, taking the whole country into consideration, probably equalled those of last year, but there was an apparent falling off in some of the large producing centers. This was probably due in a measure to the fact that cities and towns which have formerly been obliged to depend upon these producing centers for at least a portion of their supply, were, owing to the unusually favorably weather, enabled to fill their orders more nearly complete from their own cut and were not

obliged to buy so heavily. The recent disturbances in financial circles also unquestionably had their effect in lessening demand as the uncertainty of the situation induced conservatism among those buyers who are generally most lavish in their expenditures.

A FLORIST of Nashville, Tenn., writes complaining that growers and commission men have been selling cut flowers to retail buyers in his city at wholesale rates. While this is certainly to be deprecated we do not see that anything can be done except to retaliate by withholding his own trade from the growers and dealers complained of, and possibly securing the concerted action of the other florists in the city in the same direction.

THE BOUVARDIA flowers of which we made note in last issue as having been received from Mr. J. Linfort, College Hill, O. were of the variety "Grandeur." Mr. L. has since sent us a letter regarding same. He writes: "I have grown it this season for our Cincinnati market and find it much admired. It is a good grower, blooms freely, and the flowers have met with ready sale."

WE HAVE received from Mr. P. H. Meehan, Washington, a specimen bloom of a rose which he states is a seedling from Safrano. The flower is deeper in color than Safrano, much larger and more double. He states that the plant is a strong grower and free bloomer like its parent.

WE CAN supply the FLORIST and the American Garden together for 1891 for \$2.50.

J. B. T.—The subjects of your queries have been fully covered in recent issues.

Catalogues Received.

Joseph Renard, Unionville, Pa., carnation plants; E. H. Hunt, Chicago, cut flowers; A. Cauchois, Orleans, France, roses; Heatherside Nurseries, Frimley, Surrey, England, plants and nursery stock; Pike County Nurseries, Louisiana, Mo., nursery stock; C. Platz & Son, Erfurt, Germany, seeds; Johnson & Stokes, Philadelphia, seeds, bulbs etc.; Academy Nursery, Franklin, Neb., Rocky Mountain trees; Osage Nursery, Osage, Iowa, nursery stock; H. E. Chitty, Paterson, N. J., rooted carnation cuttings; W. B. Woodruff, Westfield, N. J., verbenas; Wm. Swayne, Kennett Square, Pa., carnations; Oscar H. Will, Bismarck, N. D., seeds; Wm. Paul & Sons, Waltham Cross, Herts, England, roses; Albert M. Herr, Lancaster, Pa., carnation novelties; Ludwig & Richter, Allegheny, Pa., seeds; John Palmer & Son, Dumfriesshire, Scotland, nursery stock.

PHILADELPHIA, JAN. 3.—The result of the bowling match to night was as follows: George Anderson, first prize, with a score of 181; A. B. Cartledge, second prize (a turkey) with a score of 147; John G. Lamb, third prize (a turkey), with a score of 118. The booby prize (a rooster) went to William Quibell who had a score of 67.

LOS ANGELES, CAL.—Christmas trade was about six times larger than last year. Carnations, violets, roses, Roman hyacinths, etc., were plentiful and in good demand. The Southern California Floral Society announces its Rose Show to commence April 14. An effort will be made to make the exhibition educational as well as artistic.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,
And the Choicest ROSES for the
fall and winter season.

W. S. ALLEN,
WHOLESALE DEALER IN CUT FLOWERS,
36 EAST 23rd STREET, NEW YORK.
ESTABLISHED 1877.

Price List sent upon application.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
NO. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

HAMMOND & HUNTER,
WHOLESALE DEALERS IN
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27 Union Square, NEW YORK.

JOHN YOUNG,
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56 WEST 30TH STREET,
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EDWARD C. HORAN,
34 W. 29th St., NEW YORK.

Having removed to more spacious quarters
(next door) with increased resources and facilities
I am now prepared to furnish at short notice and
in any quantity, selected Roses of every variety,
also all other flowers in market.

Roses to be shipped are especially select-
ed, and packed under personal supervision.

SPECIALTIES:

American Beauty, La France, The Bride,
Mermat, Mme. Hoste, Duchess of Albany.

— WRITE FOR PRICE LIST. —

Return telegrams sent when orders or part of
them cannot be filled.

A. S. Burns, J. I. Raynor.

BURNS & RAYNOR,
WHOLESALE FLORISTS,
11 West 28th St.,
NEW YORK.

Consignments of Carnations
WANTED.
THE WISCONSIN FLOWER EXCHANGE,
133 Mason Street, MILWAUKEE, WIS.

@Wholesale Markets.

Cut Flowers.

BOSTON, Jan. 5.	
Roses, Bon Silene.....	2.00
" Niphetos, Gontiers.....	4.00 @ 5.00
" Perles, Superb.....	5.00 @ 8.00
" Mermets, Brides.....	8.00 @ 12.00
" Woottons, La France.....	1.00 @ 2.50
Carnations.....	4.00 @ 5.00
Valley.....	1.00 @ 1.50
Carnations, long.....	4.00 @ 5.00
Violets.....	1.00 @ 1.50
Callas.....	4.00
Hyacinth.....	1.00 @ 1.50
Pansies.....	1.00 @ 1.50
Smilax.....	1.00 @ 1.50
Adiantums.....	1.00 @ 1.50
Asparagus.....	50.00

PHILADELPHIA Jan. 5.	
Roses, Beaulieu.....	35.00 @ 50.00
" Brunner.....	12.00 @ 15.00
" La France, Albany.....	50.00
" Tullins, Lucretia.....	12.00 @ 15.00
" Mermets, Brides.....	5.00 @ 8.00
" Gontiers.....	12.00 @ 15.00
" Bennetts & Hoste.....	12.00 @ 15.00
" Carnas, Watteville.....	5.00 @ 8.00
" Perles, Niphetos.....	5.00 @ 8.00
" Woottons.....	1.00 @ 1.50
Valley.....	1.00
Carnations, short.....	1.00 @ 1.50
Romans.....	2.00
Adiantums.....	1.00

NEW YORK, Jan. 5.	
Roses, Bon Silene, Papas, Perles.....	8.00 @ 8.00
" Niphetos.....	4.00 @ 5.00
" Souva.....	4.00 @ 5.00
" Hoste.....	6.00 @ 8.00
" Mermets, Brides.....	10.00 @ 12.00
" Watteville, Carnas, Bennetts.....	10.00 @ 12.00
" La France, Albany.....	15.00
" Bon Beauty.....	25.00 @ 30.00
" Magnas.....	20.00 @ 25.00
" Alexis.....	25.00 @ 30.00
Smilax.....	2.00
Carnations, long.....	2.00
Asparagus.....	35.00
Plumosa.....	75.00
Longiflorum.....	20.00
Lily Valley.....	1.50 @ 2.00
Violets.....	4.00 @ 5.00
Roman hyacinth, narcissus.....	3.00 @ 4.00
Bouvardia.....	4.00
Adiantums.....	1.00
Callas.....	3.00 @ 4.00
Mignonette.....	1.00

CHICAGO, Jan. 7.	
Roses, Bon Silene.....	4.00 @ 5.00
" Perles, Niphetos, Gontiers.....	6.00 @ 8.00
" La France, Albany.....	8.00 @ 10.00
" Brides, Bennetts.....	8.00 @ 12.00
" Woottons, Dukes.....	8.00 @ 12.00
" Beaulieu.....	10.00 @ 15.00
Carnations, short.....	2.00 @ 3.00
Carnations, long.....	2.00 @ 3.00
Carnations, long, fancy.....	3.00 @ 5.00
Smilax.....	1.50 @ 1.50
Adiantums.....	1.25 @ 1.50
Callas.....	1.50 @ 2.00
Violets.....	1.50 @ 2.00
Bouvardia.....	1.50 @ 2.00
Roman hyacinth, narcissus.....	1.00 @ 1.50
Stevia.....	1.00 @ 1.50
Heliotrope.....	1.00 @ 1.50
Valley.....	1.00 @ 1.50
Harriet.....	1.00 @ 1.50
Tulips.....	4.00 @ 6.00
Mignonette.....	1.00

WM. J. STEWART,
Cut Flowers & Florists' Supplies

WHOLESALE

67 BROMFIELD ST., BOSTON, MASS.

GEO. MULLEN,
WHOLESALE FLORIST,
Florists' Supplies Always in Stock.

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(Off School St., near Parker House),
BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express promptly filled.

WELCH BROS.,
WHOLESALE FLORISTS,165 Tremont Street, BOSTON, MASS.

We make a specialty of shipping choice Roses and
other Flowers, carefully packed, to all points in
Western and Middle States.

Return Telegram sent immediately when it
is impossible to fill your order.

DIRECTORY.

Every Florist, Nurseryman and
Seedsmen should have one.

AMERICAN FLORIST CO., Chicago.

E. H. HUNT,
WHOLESALE FLORIST

79 Lake Street, CHICAGO,

(Successor to Vaughan's Cut Flower Dept.)

All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
WHOLESALE FLORISTS,

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All Cut Flowers in season. Orders promptly shipped.
Store open until 9 P. M. Sundays until 2 P. M.

ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

C. H. FISK,
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.

OPEN NIGHTS AND SUNDAYS.

WIRE DESIGNS IN STOCK

GRESENZ & HARMS,
(Successors to FRESE & GRESENZ.)
Wholesale Dealers in
CUT FLOWERS,
And Florists' Supplies.

89 Wabash Ave., CHICAGO.

Store Open: Nights 9 P. M.; Sundays 2 P. M.

J. M. McCULLOUGH'S SONS,
Wholesale Commission Dealers in
CUT FLOWERS

134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES:
ROSES, CARNATIONS AND ORCHIDS.

LaRoche & Stahl,
Florists & Commission Merchants

—OF—

CUT FLOWERS,
1237 Chestnut Street, PHILADELPHIA.

Consignments solicited. Special attention paid to shipping. Mention AMERICAN FLORIST.

G. E. & S. S. PENNOCK,
WHOLESALE FLORISTS,

38 S. 16th Street, Philadelphia, Pa.

JOHN M. HUDSON,
WHOLESALE
Commission Dealer in Cut Flowers,
1225 Market St., ST. LOUIS, MO.

Quick sales and prompt returns guaran-
teed. Consignments solicited.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
1122 PINE STREET,
ST. LOUIS, MO.

CUT FLOWERS.

The choicest Cut Flowers, of our own growing,
at lowest market rates, shipped C. O. D. Use A.
F. Code when ordering by telegraph. Telephone
connections. For prices, etc., address
J. L. DILLON, BLOOMSBURG, PA.

@Re Seed @rade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FORTLER, Jr., Boston, secretary and treasurer. The annual meeting at Cincinnati, June, 1891.

Points on Advertising.

We have been interested in reading Mr. Burpee's "Facts and Figures" about advertising, and beg to submit our experience as to the cost of catalogue applications and general results. We do not keep a record of the returns from each paper as Mr. B. does, trusting to general observation for a guide as to what papers do or do not pay. We think we use pretty nearly the same class of mediums Mr. Burpee does, with the exception of papers known as "Co-operatives" which we use to considerable extent while he does not. Our results last spring were as follows: We paid out for advertising, \$13,307.71 to which can be added commissions, electrotypes, postage and other expenses \$1,599.66, making a total cost of \$14,907.37. From this expenditure we received a little over 62,000 applications for catalogues, 42,053 of which were paid for at ten cents each, which reduced our net advertising cost to \$10,702.07. This makes the net cost of each applicant about 17 cents.

This good result may seem surprising to some who know that we spent a fair share of the above amount in Kellogg's Lists of fifteen hundred co-operative newspapers. The fact is these little country papers pay much better in direct returns than they usually get credit for, yet in indirect returns we consider them much more valuable. In the first place, the competition from rival houses is very little; as few seedsmen or florists advertise in them; and in the second place, the amount of territory which they cover at small cost is very great. Here are fifteen hundred papers circulated through parts of the west where we have many thousand customers residing, who have our annual catalogue. I contend that the "moral effect" on these people at seeing our advertisement in their own little town paper is very great, and that it does much towards deciding them to sit down and send us an order from the catalogue already in hand. At least, we have always found it so. When our ads. in Kellogg's Lists appear a great increase in our general orders from the section of country covered by these papers is at once apparent. We have never been able to get satisfactory results from the so-called agricultural papers. There are, of course, exceptions, but as a class we have not been pleased with them. This seems strange, as one would naturally suppose them to be excellent, circulating as they do among the class of people the seedsmen desires to reach. We can account for it only that these papers, as a rule, have very small circulations and charge the advertiser exceedingly high rates. The large weeklies and family papers are generally good. Magazines are fair, and would be the very best mediums were it not for the fact that the ads. are all paged together by themselves and are seen only when one looks for them; this the average reader seldom does. The practice of running a series of comic pictures through the advertising pages, which some magazines have recently adopted, is to be commended, and will do much towards increasing the value of such publications as advertising mediums.

The returns from religious papers come rather slow, but are from a splendid class of people, who, when once secured, make good customers.

Mr. Burpee's idea of offering a prize for the best advertisement may be a good one, but we would like to know in what way they can be fairly judged without a practical test. Our experience has been that no man can tell how an advertisement is going to take until it is tried. Such as might be considered the best is quite liable to prove the poorest. Experience has shown that only the public at large can decide what advertisements are good and what are not. Some of the largest and best, (in our estimation,) which we ever put out have paid the poorest, while others that we did not consider strong have proved to be so.

JOHN LEWIS CHILDS.

Floral Park, N. Y. Dec. 31, 1890.

[We rather prefer the exact records supplied by Mr. Burpee to Mr. Childs "general observation," but Mr. C. makes a point in the "moral effect" of the small country papers. Good judges, however, report very light direct results from that class of papers.—Ed.]

A GOOD STORY is told of a certain Philadelphia house who are said to keep five or six different names over each potato bin, for instance, a rosy early potato would fill the bill for Early Rose, Clark's No. 1, Chicago Market, Early Maine, etc. A large late white variety would answer for Burbanks, White Star, Empire State, etc. We hope this had no foundation except the jealousy of a competitor.

SAN FRANCISCO, Dec. 21. Among other enterprises incorporated yesterday was the Cox Seed and Plant Company, with \$100,000 capital and subscribed stock. Directors—Aaron, Thomas A., William A., R. L. and S. W. Cox.

Chicago.

In the Chicago public library are the following books of interest to florists:

Allen. Colors of Flowers.
Bailton. Natural history of plants.
Balfour. Manual of botany.
—Physiology of plants.
Barton. Elements of botany.
—Flora of North America.
Berkeley. Cryptogamic botany.
Bessey. Botany for high schools.
Brown. Manual of botany.
Burbidge. The narcissus.
Cadolle. Vegetable organography.
Carpenter. Vegetable physiology.
Catlow. Popular greenhouse botany.
—Popular field botany.
Chapman. Flora of the Southern U. S.
Comstock. Intro. to study of botany.
Cooke. Freaks and marvels of plant life.
—Fungi; edited by Berkeley.
—Manual of botanic terms.
—Manual of structural botany.
Coulter. The plant.
Darwin. Different forms of flowers on plants of the same species.
—Fertilization in vegetable kingdom.
—Insectivorous plants.
—Movements of climbing plants.
—Orchids fertilized by insects.
—Power of movement in plants.
Earle. English plant names.
Eaton. Ferns of North America.
Ellwanger. The rose.
Fern Manual. British ferns.
Fraser. Ornamental conifers.
Goody. Vegetable and Animal Physiology.
Gray. Botanical text book.
—Botany of Northern United States.

—How plants behave.
—How plants grow.
—Introduction to systematic botany.
—School and field book of botany.
Henderson. Handbook of plants.
Herick. Wonders of plant life.
Henslow. Descriptive and physiological botany.

Hilberd. Rose book.
Hobbs. Botanical handbook of names.
Hole. Book about roses.
Hooker. Primer of botany.
—British flora.
—Century of ferns.
—Second century of ferns.
—Flora Scotica.
—And Baker. Synopsis of ferns.
Hoopes. Book of evergreens.
Hope. Gardens and woodlands.
Hulme. Familiar wild flowers.
Jackson. Literature of botany.
—Bibliography of vegetable technology.
Karr. Four round my garden.
LeMaout & Decaisne. System of botany.

Lee. Trees, plants and flowers.
Lindley. Natural system of botany.
Linnaeus. Species plantarum.
—View of Writings of; by Pulteney.
Loudon. Trees and shrubs.
Lowe. Ferns, British and exotic.
—New and rare ferns.
—Our native ferns.
Lyell. Handbook of all known ferns.
M'Alpine. Botanical atlas.
Macloskie. Elementary botany.
MacMillan. Alpine plants.
Marion. Wonders of Vegetation.
Meehan. Native flowers and ferns of United States.

Michaux and Nuttall. North American sylva.
Moore. Elements of botany.
Mueller. Fertilization of flowers.
Nuttall. Systematic botany.
Parkman. Book of roses.
Parsons. The rose.
Paxton. Magazine of botany.
PHELPS. Lectures on botany.
Pickering. Chronological history of plants.

Pulteney. Writings of Linnaeus.
Robinson. Ferns in their Homes and ours.
Sachs. Text book of botany.
Seemann. History of the palms.
Sprague. Wild flowers of America.
Step. Plant life.
Ware. Flowers and plants.
Wheldon, J. Botanical catalogues.
Williams. Greenhouse flowering plants.
—Orchid growers' manual.
—Ornamental leaved plants.
Wood. American botanist and florist.
Allen. Flowers and their pedigrees.
Burbidge. Orchids and how to grow them.

Crandall. Origin of cultivated plants.
Eaton and Wright. North American botany.
Embury. American wild plants.
Fawkes. Horticultural buildings.
Field. Floral world and floral guide.
—The greenhouse as a winter garden.
Glenny. Culture of flowers and plants.
—Gardeners' every day book.
—Flower garden and greenhouse.
—A year's work in garden and greenhouse.

Gray. Field, forest and garden botany.
Lindley & Patton. Flower garden.
Long. Ornamental gardening.
Nicholson. Dictionary of gardening.
PHELPS. Botany for beginners.
—Familiar letters on botany.
Twining. Natural order of plants.
Youmans. 1st book of botany.
—2nd book of botany.

Philadelphia.

Christmas has come and gone and as far as we can hear the trade generally are satisfied. Growers report a good cut and most of the stores a better business.

What a blessing Christmas is. The people that gather and sell holly, mistletoe, laurel trees and other Christmas greens look forward and lay their plans for months ahead, and many a dollar is made by those who have no capital save willing hands. Such a chance too, it gives the grower to improve his prices and how he does take advantage of it. Prices jumped from \$10 for Mermets, La France and Brides on the 18th, to \$25 for the same kinds on the 23d, and stock was not all first class even at that. Everything goes at Christmas, but it is rather galling to the dealer to see would-be customers go out of the door on the announcement of prices.

John Burton had some fine Laings and Luizes in these brought 75 cents. Geo. Anderson also had quite a few hybrids, among them some choice Brunners.

There was plenty of stuff of all kinds and no word of "We can't take any more orders as we haven't got flowers enough to get out what orders we have," as used to be the case in former years. Philadelphia now has plenty of flowers for her own market and an abundance for shipping.

Mr. Heacock, of Jenkintown, has put in a telephone, the first grower to connect his place with the city. The telephone is scarcely used by the trade here, only two firms have them and they say they don't pay. We think the latter move is in the right direction and hope that more growers may see fit to follow suit.

Jacob Becker lost considerable glass by a recent storm. The wind lifted the roof off a shed on to the greenhouses beyond with disastrous results. Mr. Alburger, of Gray's Lane, suffered in a like manner, but the loss was not so great.

Robert Craig has some fine roses at present; a bunch of Hostes is looking very well and produces some fine flowers. There are a great many opinions expressed about this rose. Some men say they have thrown out what they had, while others are very well satisfied. Store men say it sells well when it comes good and is a great keeper, but will not bear much handling.

The bowling alley at the club is affording much amusement and is well patronized. Scores too are getting better—209 and 211 are the best so far. L.

Echoes from Philadelphia.

The volume of trade was greater at Christmas than usual. Many florists claiming an increase, while none will admit but what they held their own over former years.

The great bug bear—prices—was again the bone of contention between the retailer and commission man and grower. The former went so far as to dub the two latter "robber-barons," whereas the retaliation run somewhat in this shape: "The retailer hesitates not a moment to charge \$18 per dozen for what he has just paid \$6," and besides he continues, "what did the barons have to accept for their wares up until the gay and festive Christmas time?"

No matter how much the "kicking," the law of supply and demand will continue to regulate prices, until the much talked of syndicate buys up all the growing establishments, then, and not until then,

will the prices be systematically regulated.

It was the elder Rothschild who said the way he made his money was by "buying sheep and selling deer," and the florist-Rothschilds today are following in the old gentleman's footsteps.

Since Christmas day trade has been flat to put it quite mildly. New Year's day is getting worse and worse. It is a short season between now and Lent. It is to be hoped that it will be as lively as it is short.

Hon. John Burton is cutting some fine Brunners at this time; so also are Messrs George Anderson and Charles S. Price. This is the most satisfactory high priced rose to handle that we have; it is perfect in form, bright and cheerful in color and gives universal satisfaction to both retailer and flower lover, but alas! and alack-a-day!! the barons are indignant because it fails to flower freely, consequently they do not fully enter into its popularity. At Christmas it wholesaled at \$1.00 each, now it has dropped to 75c apiece. Either Laing, Luize or Magna Charta will pay the grower better at half the price.

By way of recreation the members of the Florists' Club and their friends will engage in a bowling contest for turkeys on Saturday evening. There will be three classes—those having made more than 150 forming one class, those having made less than 150 another class, and to help the unfortunate ones, those having made less than 125 will have a class all by themselves. The one making the lowest score will also be rewarded regardless of the class he rolls in, this will be known as the booby prize. M.

G. J. MOFFATT,

Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.

Samples and prices on application. When writing for, prices, please state sizes and quantity wanted.
Mention American Florist.

THE BEST KIND OF

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To Farm and Garden Interests
Is secured by planting only
The **Best Seeds** the World Produces.
There are none better than **BURPEE'S**.
As Thousands upon Thousands Testify.
An impartial, careful Reading of
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Will probably persuade you to try
This Practical Protection of your Garden
Shall we mail you a copy?

W. ATLEE BURPEE & CO.
PHILADELPHIA, PA.



JOHNSON & STOKES, SEEDSMEN,

217 and 219 Market Street, PHILADELPHIA, PA.

Mention American Florist.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—As gardener and florist; S. can give good reference as to character and ability. W. W. DeGua, Hudson, Summit Co., O.

SITUATION WANTED—By Feb. 1 by a German florist, on a commercial place, age 35; can give best of references; sober and steady; also good rose grower. care A. Harth, Flatbush, L. I. N. Y.

SITUATION WANTED—As foreman in commercial or good private place; thoroughly competent to manage place and the growing of Tree and Hybrid roses, forcing of bulbs and all kinds of cut flowers for market; single, temperate, good credentials. Address G. A. care American Florist.

WANTED—To rent four greenhouses in or near Chicago, with or without stock. H. care American Florist.

WANTED—An active, progressive greenhouse gardener, who could at times assist in order and packing department of a large commercial place. Give references and particulars to G. G. Lock Box 108, Philadelphia.

WANTED—To lease a lot of greenhouses with ground, houses must be in good condition, or will take a place on shares; thorough practical knowledge of managing business; growing credentials. Address N. J. care American Florist.

WANTED—Gardener to take charge on or before the first of April to a private place within 100 miles of New York; must be thoroughly up in growing of vegetables, small fruit, flowers and grapes both in open ground and under glass; will have to board his men. Address giving experience, references, age, nationality and wages. I. G. Lock Box 108, New York City.

FOR SALE CHEAP—A wagon suitable for florist. 51 North 10th Street, Philadelphia, Pa.

FOR SALE—A country hotel with greenhouse, in a prosperous Connecticut town. For particulars address HOTEL, care Am. Florist.

FOR SALE.
Greenhouse filled stocked with plants. 6,000 cuttings ready to root; ash trees, shrubs, roses, etc. 2-room frame house with cellar. Five year leasehold on ten acre lot, cheap rent, unique location. Splendid place for wholesale or retail nursery sales-ground. A good chance for your landscape gardener or florist. Good reason for selling. Address FLOREST: Matthey, carrier, Westwater Lane, near Taylor Avenue, St. Louis, Mo.

HENRY METTE,
Seed Grower and Merchant,
QUEDLINBURG, GERMANY,
(Established 1787.)

Wholesale Catalogue free on application. Special low prices given for large quantities.

USE FERRY'S SEEDS

BECAUSE THEY ARE
THE BEST.
D. M. FERRY & Co's
Illustrated, Descriptive and Priced
SEED ANNUAL
For 1891 will be mailed **FREE**
to all applicants, and to last season's customers. It is better than ever.
Every person using Garden,
Flower or Field Seeds,
should send for it. Address
D. M. FERRY & CO.
DETROIT, MICH.
Largest Seedsmen in the world.

Vegetable Seeds for Market Gardeners.

Flower Seeds and Bulbs for Florists.

Our reputation among the critical Market Gardeners of this country, for having varieties and strains specially adapted to their wants, is second to none.

Our new Florists' and Market Gardeners' WHOLESALE PRICE LIST is the best and most complete list of its kind ever sent out. Write for it on your printed letter-head or enclose business card to show you are entitled to it. Our Horticultural and Poultry Supply Circulars are complete and can be had for the asking.

Boston.

The cut flower trade has had a bad cut down since the holidays, prices being lower than ever before at this season of the year. Roses especially have been affected, and unless there is a very decided and speedy advance in prices growers will suffer severely.

The annual supper of the Gardeners and Florists Club will take place on Thursday Feb. 5, at the Quincy House.

The opening meeting of the Massachusetts Horticultural Society for 1891, was well attended and President Spooner's address gave much satisfaction. He spoke of the achievements of the society during the year just passed, giving the committee in charge and the exhibitors at the August exhibition in Music Hall, much praise for their well directed efforts, and stated that the recent chrysanthemum show was the most successful pecuniarily that the society had ever held. The finances of the society are in a prosperous condition and the schedule of prizes for 1891 which has just been published, shows a liberal advance in value of premiums offered over previous years. W. J. S.

Minneapolis, Minn

Christmas trade in St. Paul and Minneapolis was as brisk as usual, every one doing a good business. Violets and valley were very scarce and high.

The stock of roses and carnations was unusually fine this year, the sunny weather for the past few weeks bringing everything in fine color. Home supply not equal to the demand. Bulls were plentiful but not exceeding the demand.

Chrysanthemums were gone. The florists did not object but some of their fast customers thought "it was just too bad!" not on account of the price you know but they "liked chrysanthemums so much better than roses."

The inquiry for specimen plants in bloom was much greater than ever before. A few well grown specimens of Harrisii, azalea and assorted ferns in pots, was about all that was offered. Jardinieres filled with assorted plants sold well in some places. One florist in particular having more call for these novel arrangements than he could supply.

In spite of the fact that our friends the commission men assured us that flowers would be scarce and high, it was found that unlimited orders were filled literally as they had never been filled before. In among the profits of our Christmas trade. No doubt we shall take the "limited" next time we visit our friends. S.

REGARDING the floral wreath of which we gave an illustration in issue before last, Mr. Whitnall writes that the arrangement was not his, but that the photo was one secured from Mr. D. B. Long of Buffalo.

**For Wild Smilax,
PALMS and PALMETTOS.
FOR DECORATIONS**

Write to
**A. C. OELSCHIG,
SAVANNAH, GA.**

FLORISTS DO NOT FAIL

to give the Improved Giant Verbeia seed a trial. It is a magnificent strain. See ad on page 35 this issue of the FLORIST, and order at once.

JOHN F. RUFF, Shilremanstown, Pa.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

SAN FRANCISCO, CAL.

BENNETT ROSES**OUR SPECIALTY.**

LA FRANCE, METEOR,
PERLE, GONTIER,
BON SILENE, SUNSET,
MERMET, NIPHETOS,
THE BRIDE, AM. BEAUTY.

Fine 2½-inch plants in fine condition. WRITE IMMEDIATELY for special prices to

SMITH FLORAL CO.

77 7th Street S., MINNEAPOLIS, MINN.

**E. G. HILL & CO.,
RICHMOND, INDIANA.**

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST PLANTS:

ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.

**Florists' Letters.**

Emblems, Monograms, Etc. These letters and designs are made of the best iron-wire, wired on wood or metal frames, having holes drilled in them to insert tooth-picks, by which they are fastened to the design. Give them a trial. You will find these goods to be superior to any in the market. PAT'D AUG. 6, 1889.

NOTE—All infringers or imitators of the above letters and designs will be prosecuted to the fullest extent.

Send for Sample 24in. purple, per 100, \$1.00
Postage, 16cts. per 100.

**W. C. KRICK,
1287 Broadway, Brooklyn, N.Y.**

AGENTS:

J. C. VAUGHAN, Chicago, Ill.; H. BAYERDORFER & Co., Phila. Pa.; EDWARD S. SCHMIDT, Washington, D. C.; JAMES VICK, Rochester, N. Y.; J. A. SIMMERS, Toronto, Ont.

**RENEW YOUR
SUBSCRIPTION
NOW
FOR 1891.**

STRONG AND HEALTHY ROSES

2-inch, best varieties, 100 or 1000.

MARGUERITES: PETUNIAS; ABUTILON
GOLDEN FLEECE; PRIMULA OBCON-
ICA; AZALEA; CINERARIA Hyb.
RIDA; ENGLISH IVY;
GERMAN IVY.

CARNATIONS. Rooted Cuttings Standard Vars.
CHRYSANTHEMUMS. Rooted Cuttings
Standard Vars. Write for prices.

PROBST BROS. FLORAL CO.,

1017 Broadway, KANSAS CITY, MO.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.

Dwarf Budded Roses.

The stock we offer this season is in unusually fine condition and includes all the leading varieties.

Anna de Diesbach, Mad. Gabriel Luizet,
Alfred Colomb, Mabel Morrison,
Baroness Rothschild, Magna Charta,
Baron de Bonstetter, Marie Bauman,
Boule de Neige, Merveille de Lyon,
Capt. Christy, Prince de Rohan,
Fisher Holmes, Queen of Queens,
Gen. Jacqueminot, John Brunner,
John Nipper, Louis VanMoutte,
White Baroness, La France. \$12.00 per 100; \$110.00 per 1000.

A fine lot of Marechal Niel with canes 10 to 12 feet long, \$1.00 each.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

FLOWER SEED.**CHOICEST STRAINS FOR FLORISTS.**

1891 trade list now ready, and mailed free on application.

AUGUST RÖLKER & SONS,

136 West 34th Street,
NEW YORK, STATION E.

**TRY DREER'S****GARDEN SEEDS**

Plants, Bulbs, and Requisites. They are the best at the lowest prices. FLOWER SEEDS issued quarterly, mailed free to the trade only.

**HENRY A. DREER,
Philadelphia**

SEND FOR A COPY**— OF OUR NEW —****TRADE DIRECTORY**

Price, \$2.00.

AMERICAN FLORIST CO., Chicago.**HAIR**

Lock the door BEFORE the horse is stolen. Do it NOW!
**JOHN G. ESLER, Sec'y F. H. A.,
Saddle River, N. J.**

5,000 Spirea Japonica, fine clumps, per 100, \$3.00.
3,000 Genl. Jacq. Rose plants, 4-in. pots, per 100, \$5.00.
Columb. Cuttings rooted, Verschaffeltii, per 100, \$7.00.
—Golden Beedler & Golden Verschaffeltii, — \$10.00.

JOHN BECK, Bridgeport, Conn.



ROSE HILL NURSERIES,
New Rochelle, N. Y.
NEW AND RARE PLANTS,
HARDY PLANTS,
Orchids, Palms, Ferns.
CUT ORCHIDS AT ALL TIMES.
Mention American Florist.

ORCHIDS.

Unestablished Odontoglossums.
Spreedid plants, per 100, \$25, with full
directions for mounting and cultivating.
ASSORTED ORCHIDS, containing 10 dif-
ferent varieties, per 100, \$25.
BRACKENRIDGE & CO.,
Established 1854. **Govanstown, Md.**
Mention American Florist.

ORCHIDS.

Established and Fresh Imported plants,
mostly useful for Cut Flowers, at
very low prices.

Write for our Price List.

FREDERICK MAU,
P.O. Box 322, **SOUTH ORANGE, N. J.**
Mention American Florist.

R. VAN DER SCHOOT & SON,
HILLEGOM, HOLLAND.
LARGEST GROWERS OF

**HYACINTHS, TULIPS, NAR-
CISBUS, SPIRÆA, LILIES**
OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Whole-
sale Importers should write us for prices.
Our new Bulb Catalogue is now ready.
Will be mailed free on application.
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J. A. DE VEER,
18 Burling Slip, - NEW YORK,
Importer and Dealer in

BULBS, SEEDS, PLANTS
and Florists' Supplies.

Agent for Foreign Houses. Catalogues free
to the trade.

TUBEROSES, FINE BULBS.

GLADIOLI, FORCING SORTS.

NEW CROP FLOWER SEEDS.

W. W. Barnard & Co.,
Successors to **HIRAM SIBLEY & CO., Chicago,**
6 & 8 North Clark Street, CHICAGO.



OUR NEW

DIRECTORY

giving a complete and accurate list of the
Florists, Nurserymen and Seedsmen
of the United States and Canada is

NOW READY.

Price, \$2.00.

AMERICAN FLORIST CO.,

54 La Salle Street, CHICAGO.



DREER'S MAMMOTH VERBENA SEED.

NEW CROP NOW READY.

Choicest mixed varieties in the brightest colors. Per trade packet, 50c.;
½ ounce, \$1.25; per ounce, \$4.00.

Seedling Verbena Plants are now preferred by the leading florists to
cutting plants because of their vigor and freedom from rust. The
strain we offer is selected with special reference to bright and
salable colors.

COBEA SCANDENS. per doz. \$1.75
SMILAX SEED. per pound, \$12.00; per oz. 1.00
CENTAUREA CANDIDISSIMA. per 100 seeds, .50
GYMNOCARPA. per oz. \$1.75

Preliminary Flower Seed List to the trade of seasonable seeds now
ready; mailed free to the trade.

HENRY A. DREER, PHILADELPHIA.

50,000 READY NOW. 50 VARIETIES.

VERBENAS

VERBENAS.
Packed light, and satisfaction guaranteed. Sample on receipt
of 25 cts. **J. L. DILLON, BLOOMSBURG, PA.**

IN 15 CHOICEST VARIETIES, NICE HEALTHY
AND CLEAN STOCK. per 100 \$25.00 \$27.75
CHINESE PRIMROSES, from choicest seed
2-inch 3.00
GERANIUMS, 20 good salable vars., 2-in. 3.00
Mad. Salleri, 2 in. 3.00
CANNAS, dry bulbs, choice kinds 2.50
MOON VINES (Ipomoea Noctiflypion) 2-in. 2.50
ASPARAGUS Tenusidmus, 2½-in. 2.50
COLEUS, best varieties, 2-in. 2.50
HELIOTROPS, 2 and 2½-in. 3.00
DOUBLE WHITE FEVERFEWS, 2-in. 3.00

Address **N. S. GRIFITH,**
JACKSON CO. INDEPENDENCE, MO.
(Independence is well located for shipping, being
8 miles east of Kansas City.)
Mention American Florist.

VERBENAS.

—STRONG AND HEALTHY—
Ready for immediate shipping. Per 100 Per 1000
General Collection, 2½-inch pots. \$5.00 \$25.00
XX Mammoth set, 2½-inch pots. 4.00 30.00
Rooted Cuttings. 1.25 10.00
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Apollonia Vetchill, strong plants 8.00 75.00
Begonia Rex Types, 3 & 4-in. pots 8½
Violets M. Louise, rooted cuttings. 1.25 10.00
Heliotrope in variety, rooted cuttings. 1.25 10.00
Coleus in variety, rooted cuttings. 1.25 10.00

WOOD BROTHERS,
(Successors to I. C. WOOD & BRO.) **FISHKILL, N. Y.**

TO CLOSE THEM OUT For Cash.

Per 100
Abutilon Eclipse, 3-inch, \$6.50
Manettia bicolor, 2½-inch, 5.00
" " 3-inch, 6.00
Portia and Alegatiere Carnations,
strong, in 4-inch pots, fine for
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New Geraniums and Chrysanthemums.

Lane's Mountain View Greenhouses,
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Foreign Grape Vines for Graperies.

Splendid one and two year old Vines, true to
name, grown by an expert. List of varieties and
prices mailed on application.
HENRY A. DREER, 714 Chestnut St., Philadelphia.

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USED IN ILLUSTRATING THIS PAPER.
Write for prices on any which you have seen
in previous issues and would like.

AMERICAN FLORIST CO.
CHICAGO.

VERBENAS.

PERFECTLY FREE FROM RUST.
20 vars. new seedlings, Mammoth strain, per
100 \$2.00 \$25.
Rooted cuttings of same, 100 \$4.10 \$100.50
Fine stock Heliotrope, 2½-inch, \$3 per 100.
Double Fringed Petunias, 12 vars. 2½-inch
\$4.00 per 100.
Adiantum Cuneatum, Decorum and Gracili-
mum, 5-inch, strong \$15 per 100.
Primroses, double, per 100 \$12.00.
single 10.00
Oenothera, 100 \$6.00.
Geraniums—latest Novelties.
Latania borbonica, 5-inch \$4.00, 4-inch \$3.00
per dozen.
Miscellaneous stock of all kinds.

ROSES.

Mad. Hoste, La France \$5.00 per 100.
Duchess of Albany \$5.00 per 100.
Gentians, Perles, Hermès, Bon Silènes, Brides,
Niphètes and 50 varieties of monthly roses, \$4.00
per 100 or \$35 per 1000.
H. P.'s purchaser's choice, \$5.00 per 100 or
\$50.00 per 1000.
H. P.'s, geo. choice, \$5 per 100 or \$40 per 1000.

GEORGE W. MILLER,
1748 N. Halsted St., CHICAGO.

Verbenas Now Ready

ABSOLUTELY FREE FROM DISEASE
Per 100 Per 1000
Mammoth, strong 2½-in. pots \$4.00 \$25.00
General Collection, 2½-in. pots 3.00 25.00
Mammoth set Rooted Cuttings 1.25 10.00
General Collection Rooted Cuttings 1.00 8.00

Address **J. G. Burrow,**
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IMPROVED GIANT VERBENAS.

This grand strain of the Mammoth type has been
produced by high culture and careful selection, and
for large size of flowers, profusion of bloom and
choice colors has unequalled in the past
season I tested this strain with a large number of
called Mammoth, and it far surpassed them all.
Flowers are over an inch in diameter, borne profusely
in large bell-shaped, finest colors. Fresh, well-ripened
seed, 25 cts. per 100.
JOHN F. RUPP, Shiremanstown, Pa.

Special Offer.

	Per 100	Per 1000
Aloisia citridora (Lemon Verbena) 2-in.	\$5.00	\$4.00
Antennaria coronaria R. pl. 2-in. pots	4.00	4.00
Azalea white and blue, 2-in. pots	4.00	4.00
Abutilon Eclipse, 2-in. pots	4.00	4.00
Crochidium lanatum, 2-in. pots	4.00	4.00
Mentha-breathemum cordata var. 2-in.	4.00	4.00
Peristrophe aurea variegata, 2-in. pots	4.00	4.00
Rose geraniums, true, 2-in. pots	4.00	4.00
Othos erapholia, 2-in. pots	4.00	4.00

GIDDINGS, Danville, Ill.

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:
25,000 Dwarf budded Roses in sorts.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Pontica in sorts.
2,000 Clematis, extra strong plants.
Trees, Shrubs, Evergreens, Conifers, Paeo-
nias and other herbaceous plants.

PLANTS FOR FORCING AND DECORATING.

Address **P. OUWERKERK,**
P.O. Box 1845, NEW YORK CITY.
Catalogue on application.
Mention American Florist.

Denver, Colo.

Christmas trade was brisk in loose cut flowers, long stemmed roses and carnations having the preference. Very little demand for made up work of any kind. Home grown flowers were very poor, and fully three fourths of the roses and other choice stock sold during the holidays had to be shipped from eastern cities. Even then the supply was not nearly equal to the demand. Fancy roses retailed at from \$3.00 to \$4.00 a dozen, and in some cases as high as \$5.00 a dozen. Carnations with long stems retailed at \$1.00 to \$1.50 a dozen, Roman hyacinths at \$1.00. Valley and violets were scarce.

The building boom during 1890 was quite extensive, fully 50,000 feet of new glass having been added during the year. J. L. Russell, successor to Gallup's old place, put up nearly one half of the amount. The others were H. Hously, a new florist, 6,000 feet, principally for roses; Chapman & Hanselman, 7,000 feet for roses and carnations; Hitchcock & Hubbard, another new firm, three rose houses containing 6,000 feet. This last named firm contemplates building the largest horticultural establishment in the west, and if money, perseverance and knowledge will do it they will certainly succeed.

Braun & Miller are continually adding to their Peterburgh establishment and their foreman, Mr. Foster, is now sending into the city the finest Nemets and Brides ever grown in quantity in this section. Charles Mauß, the Capitol Hill florist, is also growing splendid specimens of the two above named roses, also large well colored blooms of La France. This establishment also added three new houses last year. Witter & Co. have added two new rose houses, Newlander & Rollin two new plant houses, and these are to several new outside aspirants.

J. B.

CARNATIONS.

Rooted Cuttings of the following vars. at \$1.00 per 100
HINZE'S WHITE, L. L. LAMBORN,
JEANNETTE, PETER HENDERSON,
SNOWDON, PORTIA, E. G. HILL,
GRACE WILDER, ANNA WEBB,
PRIDE OF KENNETH, DAWN.
CENTURY, \$1.00 per 100.
FRED CREIGHTON (New) Pink, \$4.00 per 100.
Double White, Double Variegated and Fringed
PETUNIAS, \$2.00 per 100.
GERANIUMS, all the finest varieties in mixture
\$2.00 per 100; to name, \$4.00 per 100.
ROOTED CUTTINGS of the leading varieties of forcing
ROSES. Prices on application.
JAMES HORAN, Florist, Bridgeport, Conn.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; **Edelweiss**, \$1.00. Send for circular of leading varieties and several new seedlings of merit.

W. R. Shelmire,
AVONDALE, PA.**Rooted Cuttings of Carnations**

of all the Standard Varieties ready Dec. 1st.
Having added another 100 foot house to our Carnation Department, hope to be able to furnish any quantity desired, on short notice.
Orders for future delivery at 10 per cent off from catalogue price.

JOS. RENARD, Unionville, Chester Co., Pa.**Order Now**

A Copy of our New

TRADE DIRECTORY

PRICE, \$2.00.

AMERICAN FLORIST CO., 54 La Salle St., Chicago.

ROOTED CUTTINGS.

— Send for Lists. The prices and quality are sure to please. —

CARNATIONS—All the leading sorts. Eight 100 foot houses.**COLEUS**—An immense stock. Twenty-four varieties.**GERANIUMS**—A choice assortment in mixture, at \$10.00 per 1000.**CANNAS**—French and others, and numerous items of interest to florists. A new feature in Smilax culture.**CARNATION NOVELTIES.**

Lizzie McGowan, Louise Porsch, Golden Gate, J. R. Freeman, Wm. F. Dreer, Hector, Edelweiss, Angelus, Dorothy, Nellie Bly, Snow Bird, White Wings, May Flower, Orange Blossom, Beauty of Oxford, Emily Louise Taplin, and others are described in my list.

L. B. 338.**ALBERT M. HERR, LANCASTER, PA.****LIZZIE MCGOWAN,**

* * THE QUEEN OF WHITE CARNATIONS! * *

Will be ready for distribution February 10th, '91. Price, \$12 per 100; \$100 per 1000, for strong well rooted plants from cutting bench. Plants well established in small pots, \$3 per dozen.

Send for price and descriptive list of this and other sorts.

ADDRESS

H. E. CHITTY, PATERSON, N. J.**WINTER-FLOWERING CARNATIONS
FOUR GRAND NEW VARIETIES.**

You cannot afford to pass by without trying our seedlings of merit for 1891; there is more profit in growing fine, fancy flowers every year; and in **GOLDEN GATE** (yellow), **WM. F. DREER** (rose pink), **J. R. FREEMAN** (cardinal crimson), and **CONSTANCY** (scarlet), you have a good range of color in the most perfectly shaped flowers and productive of bloom.

Prices, **Golden Gate**, \$2.50 per dozen; \$20 per 100. **Dreer**, **Freeman** and **Constancy**, \$2.00 per dozen; \$15 per 100. On an order at one time for 100 plants of each variety or 400 plants in all, the price would be \$50; or half the amount, \$25. Sample florets of the four varieties will be mailed on receipt of 35 cts.

CHAS. T. STARR, Avondale, Chester Co., Pa.**LIZZIE MCGOWAN THE NEW WHITE.**

ROOTED CUTTINGS, \$12.00 per 100, or \$100 per 1000.

LOUISE PORSCH FINE YELLOW.

Better grower than Buttercup; \$7.00 per 100; \$50.00 per 1000.

Both ready for delivery February 10, 1891. 500 at 1000 rate, and 50 at 100 rate.

ADDRESS

JOHN MCGOWAN,

363 Main Street, ORANGE, N. J.

ROOTED CUTTINGS OF CARNATIONS.

Standard and Fancy varieties, ready January 1st. Stock healthy, cuttings rooted cool. A large stock of NEW WHITE CARNATION L. L. Lamborn. A liberal discount on large lots for later delivery. Send for wholesale price list.

Wm. Swayne, P. O. Box 226, Kennett Square, Pa.**CARNATIONS!**

FAIR ROSAMOND, J. R. FREEMAN, HECTOR, MRS. FISHER, WM. F. DREER, CHASTITY, SILVER SPRAY, TIDAL WAVE, GRACE WILDER, L. L. LAMBORN, CONSTANCY, EDELWEISS, EMILY LOUISE TAPLIN, ANGELUS, LOUISE PORSCH, NELLIE BLY, DOROTHY, DAY BREAK, and sixty other leading varieties. 50,000 now in cutting bench. Send for price list, and order early.

GEO. HANCOCK, Grand Haven, Michigan.

Golden Gate, Fred Creighton, Mrs. Fischer, Tidal Wave, Daybreak (Simmons' new pink), Lizzie McGowan, Lamborn, Silver Spray, Orient, Freeman, Buttercup. Rooted cuttings or plants, at market rates. **J. C. Vaughan, Chicago.**

CARNATIONS.

News Notes.

EAU CLAIRE, Wis.—Fire damaged the greenhouses of B. F. Millard, causing a loss of about \$800, early in the morning of December 24.

HACKETTSTOWN, N. J.—Wm. B. Heymann & Co. have let the contract for the building of two additional greenhouses, each to be 150x26½ feet.

SALISBURY, Mo.—Chas. Pomeroy has started in the florist business here since the publication of the directory, and should be added to the list.

VALLEY FALLS, R. I.—The father of Walter Sword, the florist, died at Pawtucket December 28. Mr. Sword has the sympathy of his friends in the trade.

NASHVILLE, TENN.—Cantrell Bros. succeeded M. Trischler & Son, the florists on Hydes Ferry Pike. The firm is composed of Robt. W. Jas. G. and Harvey W. Cantrell.

PITTSBURG.—A blaze in the greenhouse of John Bournatreg, on Homewood Ave., caused a loss of \$1,500, on the morning of December 18. The fire originated from an over-heated flue.

ATLANTA, GA.—It is reported that a stock company has been organized with Robert J. Lowry as president, to grow flowers and plants, the glass to be located at West View Cemetery.

LEXINGTON, KY.—Christmas trade here was extra good. Flowers of all kinds brought good prices. Mrs. D. Honaker has opened a city store at 41 North Broadway, in the Opera House building.

LITTLE ROCK, ARK.—Holiday trade a little better than last year. The supply was rather short on account of a large funeral on December 24. Prices were very low. Bride roses sold slow at \$1 a dozen. The demand was mostly for loose flowers.

SHOCTON, Wis.—Eben E. Rexford, the well known writer on floriculture for amateurs, was married recently. He had just completed a new house for the occupancy of himself and bride, but it caught fire and burned a few days before the date set for the wedding.

ALBANY, N. Y.—Among the new companies incorporated with the Secretary of State is the Long Island Nursery Company, of Manor, Suffolk county, to carry on a general farming and nursery business. Capital, \$20,000, and trustees: Joseph Simons, Henry de Perigny, Edward H. Potter, Arthur M. Davis and John Seymour Montgomery.

CLEVELAND.—J. M. Livingston & Sons, the Crawford road florists, suffered a loss of \$1,000 on buildings and \$2,000 on stock, by fire December 29. No insurance. The fire started about 2 a. m. in the greenhouse-shed. This building and about 20 feet of the ends of five greenhouses were burned. The cold destroyed what stock was not touched by the fire.

OAKLAND, CAL.—James Hutchison will retire from active business May 1. The business will be continued by H. M. Sanborn (who has been with Mr. Hutchison for 21 years) and the firm name will be Hutchison & Sanborn. Mr. Hutchison recently sold the lot upon which his down town depot stood for \$72,500, an advance of \$60,000 on the price paid by him in 1876.

LOUISVILLE, KY.—Christmas trade in holly was the largest we ever had. It

was 50% better than last year. The flower trade was good but would have been better if the weather had been good. The heavy snow prevented the people from coming out. Roses, hyacinths, and narcissus were the leading flowers here. Violets were very scarce. Take it all together we had a good trade.

WORCESTER, MASS.—The recent heavy fall of snow was not removed from the streets by the authorities as promptly as it should have been, and one of our Main street florists in front of whose store the snow had been piled to a height of five feet, as a joke on the city government, planted the drift with a few pinks, ivy, etc. and placed a "keep off the grass" sign on top. It excited much amusement.

BROOKLYN, N. Y.—The evening of December 20, a spark set fire to a quantity of pampas plumes in front of florist Mallon's store and in a moment had spread the whole length of the stand on which the plumes were displayed. The wooden awning frame caught and for a short time it looked as though the main building would not escape, but the burning plumes were scattered and the awning torn from the framework in time to save the building. Loss only about \$100.

SYRACUSE, N. Y.—All our florists feel very happy over their Xmas trade which has been far in advance of previous years—not a pound of holly or green was left over. Cut flowers sold well, the chief call being for roses, carnations and violets; hyacinths and tulips moved off slowly. There was a marked falling off of orders for made up pieces, loose flowers being preferred. Prices ruled well, but it is to be regretted that there is not a better understanding amongst the florists, so that the cutting of rates may stop, for it is not profitable or satisfactory.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
56 N. 3rd Street,
PHILADELPHIA, PA.

We can now furnish in any quantity desired Debit and Credit Tickets of which we give below samples reduced one-half in size.

DEBIT. <i>Jan 10 1889</i>			
<i>John Smith</i>			
100	<i>Verbena</i>	3	—
50	<i>Geranium</i>	4	—
		7	—

The debits are printed in black and the credits in red, so they can be readily distinguished. They are put up in blocks of 100; 50 of each, placed back to back; thus but one block will have to be carried. By means of these tickets an entry of a sale or receipt of goods can be made anywhere—in the house or in the field—and afterwards filed. Tickets for each transaction in your business will make data from which a book-keeper can readily work. With this simple and easy means of keeping a record of your business can you afford to neglect so important a matter?

Price of Tickets, postpaid, 100, 20c; 200, 35c; 300, 50c; 500, 75c; 1000, \$1.40.

AMERICAN FLORIST CO.,
54 La Salle Street, CHICAGO



EVERGREEN CUT FERNS

Especially for Florists' Use.

\$1.50 per 1,000; 5,000 for \$6.25; 10,000 for \$10.00. Special attention paid to supplying the trade all winter. Sample lot of 250 ferns sent in improved mailing box postpaid, to any part of the U. S. for 75 cents.

SPHAGNUM MOSS Dry.
Long clean fibre, sack or barrel \$3.00; six barrels \$5.00; twenty barrels \$15.00.

L. B. BRAGUE,
HINSDALE, MASS.

FLORAL DESIGNS.

The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address (with \$3.50 for the book)

J. HORACE McFARLAND,
Box 655, HARRISBURG, PA.

CATALOGUES.

FLORISTS and SEEDSMEN write to The Aldine Printing Works, Cincinnati, O., for samples and prices before ordering elsewhere.

[Mention The American Florist.]



I AM ON TIME

THIS YEAR.

Write quick for January Catalogues, better than ever. I do printing for Nurserymen, Seedsmen and Florists. Write about it.

EVERY FLORIST SHOULD HAVE A COPY OF

OUR TRADE DIRECTORY.

AMERICAN FLORIST CO., 54 La Salle St., CHICAGO

CREDIT. <i>Jan 10 1889</i>			
<i>Richard Roe</i>			
500	<i>4 inch pots</i>	5	—
175	<i>2 1/2 "</i>	5	—
	<i>"</i>	10	—



THE February issue (1891) of THE AMERICAN GARDEN will be especially devoted to Orchids. It will be racy, artistic, instructive, correct. For the first time in this country the question "What is an Orchid?" will be answered. Among the notable features of the issue will be the following articles and discussions:

- A GENERAL VIEW OF THE ORCHID FAMILY.
THE BEST NEW ORCHIDS AT THE ROYAL GARDENS, KEW.
ORCHIDS AT HOME IN BRAZIL.
ORCHIDS FOR BEGINNERS.
- CYPRIPEDIUMS.
METHODS OF CROSSING ORCHIDS.
ORCHIDS IN CALIFORNIA.
CONSTRUCTION OF ORCHID HOUSES AND TREATMENT OF ORCHID PESTS.

The number will also contain an account of the Government Seed Bureau, by the ex-Chief of the Division. Every gardener, and especially every seedsman, should read this article. The number will be beautifully illustrated.

THE RURAL PUBLISHING CO., Times Building, NEW YORK.
Price, \$2.00 a year. In club with American Florist, \$2.50.

THE CHEAPEST AND BEST OF ALL.

FIR-TREE OIL

INSECTICIDE—soluble.

FOR PLANTS.—To make a solution for washing or cleansing purposes—1-1/2 a Pint of Fir-Tree Oil to ten gallons of water.

For Green and Black Fly, Thrip, American Blight, Woolly Aphis, etc.—Half-a-pint of the Fir-Tree Oil to two or four gallons of water, or two or three tablespoonsful to the pint.

For Red Spider and Caterpillar—Half-a-pint of the Fir-Tree Oil to two gallons of water, or three tablespoonsful to the pint.

For Mealy Bug, Brown or White Scale—Half-a-pint of the Fir-Tree Oil to four or six quarts of water, four to eight tablespoonsful to the pint.

For Mildew and Blight on Fruit or Foliage—Half-a-pint of the Fir-Tree Oil to a gallon of water, or six tablespoonsful to the pint.

For Ants, Grubs, Worms, Wood Lice, etc. in the Soil—Half-a-pint of the Fir-Tree Oil to ten gallons of water.

The most efficacious way to use Fir-Tree Oil in small quantities is to apply it with one of HUGHES' APPLICATORS.

When applied to the roots of delicate plants the soil should be drenched with clean water immediately afterwards, in all other cases washing is not necessary. Used with warm water it is quicker in its action than when cold is used.

Soft or rain water is necessary, and Applied in Wood, Tin or Pot Vessels. —Galvanized Iron Vessels must not be used.

FOR ANIMALS.—For Skin Diseases and Killing Vermin mix one part of Fir-Tree Oil with three parts of warm water and wet the affected part each day. In some cases it may be used stronger. For Ringworm apply full strength with a brush each day.

FOR WASHING DOGS.—Put a large coffee cup full of Fir-Tree Oil in a pail full of warm water and use a piece of common soap to make a lather.

For MANE apply with a brush full strength every day.

FOR BIRDS INFECTED WITH PARASITES.—Put a tablespoonful of Fir-Tree Oil in one quart of warm water and dip the bird in it, taking care that its eyes are protected, hold the bird in one hand for one minute, then dip into clean tepid water; this may be repeated. If necessary a much weaker solution may be used with a spray producer.

FOR CAGES.—The Fir-Tree Oil to be brushed into the crevices, or a solution of one part to three of water applied to inside with a brush.

FOR NITS IN CHILDREN'S HAIR.—Mix one part of Fir-Tree Oil with three parts of warm water and apply with a comb or brush, the hair can be washed shortly after.

FOR WASHING FLANNELS AND UNDERCLOTHING.—Put a wine glass full in ten gallons of water for steeping, the same may be put into the boiler. Common soap may be used but no other preparations.

Sold in bottles, half pints 15 cts; pints 25 cts; quarts 45 cts; half gallons 75 cts; gallons 1.25 cts.

Drums, 5 and 10 gallons each, at 1.75 per gallon.

Manufactured by E. GRIFFITHS HUGHES, Victoria St., MANCHESTER, ENGLAND.

NEW YORK—A. BOLKER & SONS.

TOBACCO STEMS FOR FLORISTS.

For Sale, packed in bales 250 to 250 lbs.

No Charge for delivering to depots.

PRICE:

\$10.00 per ton. \$1.50 per single bale.

ADDRESS

P. C. FULWEILER.

323 Arch Street, PHILADELPHIA, PA.

WE STILL LEAD, OTHERS TRY TO FOLLOW



To whom was awarded the **Only First-Class Certificate of Merit** for "Standard" Flower Pots, at the Sixth Annual Convention of the Society of American Florists, held at **Boston, Mass.,** Augus: 22d, 1890? We were. Why? Because we manufactured and exhibited the **only true "Standard"** Flower Pots, and of which we claim to be the **only** manufacturers at the present time.

FOR REDUCED PRICE LIST, ADDRESS

THE WHILLDIN POTTERY COMPANY,

713 & 715 Wharton St., PHILADELPHIA, PA.

AGENT FOR NEW ENGLAND STATES:
M. J. MCCARTHY, 27 & 29 Otis Street, Somerville, Mass.

LITTLE'S ANTIPEST

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis and Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap.** No fruit grower or florist should be without it. Send for circulars and price list.

R. W. CARMAN, General Agent,

291 AMITY STREET,

FLUSHING, QUEENS COUNTY, N. Y.

Mention American Florist.



ALL SIZES OF SINGLE AND DOUBLE TRICK

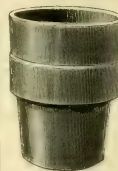
GLASS FOR GREENHOUSES.

ALL GLAZIERS' SUPPLIES.

Write for Latest Prices.
Mention American Florist.

STANDARD FLOWER POT CO.

Toledo, Ohio.

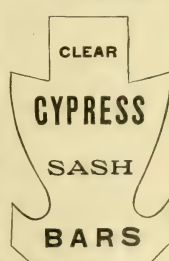


PRICE LIST:

Sizes.	Per 100	Per 1000
2 in.	\$.40	\$3.00
2 1/2 in.	.50	4.00
3 in.	.60	5.00
3 1/2 in.	.80	7.00
4 in.	.90	8.00
5 in.	1.50	14.00
6 in.	2.20	20.00

F. O. B. at Toledo. No charge for package.
Mention American Florist.

CYPRRESS GREEN HOUSE MATERIAL



HOT BED AND VENTILATING SASH

JOHN L. DIEZ & CO.

530 North Halsted Street.

CHICAGO, ILL.

Mention American Florist.

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A CALIFORNIA correspondent deploras the fact that we do not have more notes and news from the Pacific coast. It lies with our readers there to supply the deficiency. We shall be glad to publish any matter of trade interest sent us from that as well as from any other section of the continent.

THE AMERICAN GARDEN and the AMERICAN FLORIST in club, one year, for \$2.50.



Diagram Showing how perfect drainage and ventilation is secured.



Parties who have used this pot say that hereafter they will use no other.

Patented and Manufactured only by

THE WHILLDIN POTTERY CO., 713 & 715
WHARTON STREET, Philadelphia, Pa.
Agent for the New England States, M. J. McCARTHY, 27 Otis St., Somerville, Mass.

STANDARD FLOWER POTS

On and after November 1 these prices will take effect on the following sizes. Terms cash with order.

Sizes.	Price of 1000.	No. in crate.	Price per crate.
1 1/4 in	\$2 25	2000	\$4 50
2 "	2 70	1500	4 00
2 1/2 "	3 00	1200	3 60
3 "	3 20	1000	3 20
3 1/2 "	4 20	720	3 00
4 "	6 30	575	3 60
	7 30	407	3 00

We want your trade. We guarantee satisfaction. Shipping facilities unequalled.

SIPLE, DOPFFEL & CO.,
SYRACUSE, N. Y.

Every Florist! Every Nurseryman! Every Seedman!
SHOULD HAVE OUR TRADE **DIRECTORY.**
Address **AMERICAN FLORIST CO.,** 54 La Salle St., CHICAGO.

S. F. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

Many of our friends agreeing with us that the award on Standard Pots at our late Exhibition was an unjust one, we shall use the advertising columns of the AMERICAN FLORIST to state our side of the question.

We asked the Executive Committee to give us an impartial committee of award. The following propositions should convince anyone whether **WE FEEL** that we have had such a Committee.

The following is the text of the matter in question, taken from the official programme:

"Manufacturers of FLOWER POTS are notified that a Certificate of highest merit will be awarded to that display of Pots shown at this exhibition, which most nearly approaches the Standard. Such displays shall consist of not less than one dozen of each size, made from working molds and not turned down."

One member of the Committee of Award said that we were not entitled to any award because we exhibited but fifteen sizes, while others exhibited seventeen, and that seventeen cuts were represented on a white sheet of Standard Pots. We fail to see that the award was offered for any specific number of sizes, but that twelve of each size should be presented. **A MUCH MORE IMPORTANT PART OF THE COMMITTEE'S ANNOUNCEMENT** was that the pots should be **MADE FROM WORKING MOLDS AND NOT TURNED DOWN.** We do not hesitate to make this public statement that the Flower Pots to which was awarded the Certificate of highest merit were **VERY MANY** of them **EITHER GROUND, FILED, TURNED OR SAND-PAPERED** to size, and for that reason alone were not entitled even to a measurement by the Committee of Award.

WE WISH TO MAKE TWO PROPOSITIONS.

First. We will put up **\$1,000 in Cash** and submit the same pots exhibited at the late Exhibition against the pots exhibited by our competitor, and leave it to an impartial committee of three, and if our pots do not come the nearest to the requirements, we will present the \$1,000 to the fund of the Society of American Florists.

Second. We will put up **\$2,000 in Cash** and produce 500 pots of each size from 1 1/4-inch to 7-inch inclusive, and 250 pots each from 8-inch to 12-inch inclusive, making 7,500 pieces, made from the same molds in which the pots we exhibited were made, and all shall be of the proper thickness in all respects, against an equal number of pots made from the same molds that produced the pots receiving the award, and if an impartial committee do not give us the award we will present the money and the pots to the Society of American Florists for an experiment station. And if we are allowed to choose one of the committee of three, we will select our honorable Treasurer Mr. M. A. Hunt, of Terre Haute, Ind.

A. H. HEWS & CO., North Cambridge, Mass.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VI.

CHICAGO AND NEW YORK, JANUARY 15, 1891.

No. 137.

THE AMERICAN FLORIST

Copyright, 1891, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
54 La Salle Street, CHICAGO.

Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; W. J. STEWART, St. Paul, Minn., president; M. A. HUNT, Terre Haute, Ind., treasurer. Held tenth annual meeting at Toronto, Ont., August, 1891.

Florists' Hall Association.

Insures greenhouses against damage by hail.
JOHN J. ECKER, Secretary, Saddle River, N. J.

Florists' Protective Association.

Gives information to members regarding the financial standing and business integrity of those in the trade.
H. B. BEATTY, Sec'y, Oil City, Pa.

American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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As we go to press the Executive Committee of the Society of American Florists is in session at Toronto, arranging the programme for the seventh annual meeting of the society which will be held in that city next August. We shall give a full report of the proceedings of the committee next week.

THE BEST HILL of the valley we have ever seen is contained in a bunch sent us last Wednesday by A. Jurgens, Havelock, Ill.

More About Color.

There have been a great number of books written on the subject of color, and several on the nomenclature of color, none of which however seem to give to our business what we desire. Most of the authors writing on color handle the subject from a scientific point of view, using the colors of the spectrum, which does not help us much in attempting to name the colors of flowers. Allow me to quote from Rood: "The sensation of sight is produced by the action of very minute waves on the nervous substances of the retina; that is to say by the aid of purely mechanical movements of a definite character. When these waves have a length of about 1-39000 of an inch, they produce the sensation which we call red, we see red light; if they are shortened to 1-41000 of an inch, their action on us changes, the call up to us a different sensation, we say the light is colored orange; and as the lengths of the waves are continually shortened the sensation passes into yellow, green, blue and violet. From this it is evident that color is something which has no existence outside and apart from ourselves. Outside of ourselves there are merely mechanical movements, and we can easily imagine beings so constructed that the waves of light would never produce in them the sensation of color, but of heat."

Church tells us that "Certain waves or vibrations which affect the fibres or rods of the optic nerve of the eye are translated by the brain into color. Such excitation of the optic nerve may be brought about by pressure on the eyeball, by an electric discharge, by internal causes and preeminently and generally, by light. Color is in fact an external sensation, and has no external or objective existence. And on page 69 he explains figure No. 14, telling us that when three colored discs of light, red, green and blue are thrown on a black surface, these discs all partially overlap each other, where the red and green discs coincide the resultant hue is yellow. The facts are of the greatest value from a scientific standpoint, but they do not help us much in attempting to describe the color of flowers or pigments. But few people know that red and green light combined produce yellow in comparison to the many that know that red and green pigments do not. If the colors of the spectrum could be exactly imitated by pigments whose colors were permanent, it would be a comparatively easy matter to establish a nomenclature, because we should always have the spectrum to fall back on as a standard. On this point Church says: "It must not be forgotten that *not one* of the pigments we have been compelled to employ, offer more than a rough approximation to the true hue, which it is assumed to represent. All transitional hues have been purposely excluded from this diagram, for they cannot

be fairly represented by any system of color printing."

Before looking into the subject as thoroughly as I have, I had hoped to create a Standard Nomenclature; long since I have banished the thought. But if by our united effort we can bring a little order out of the very complicated and often misleading methods now employed by a great many, we shall have made a long stride in the right direction.

H. H. BATTLES.

ED. AM. FLORIST.—I notice your remarks on color. In reading Chevreul, the master of color, it has often occurred to me that a chart of colors, such as would go on an octavo page or less, would be of great interest to lovers of plants and of great value to florists. A number being attached to each shade, the color of a flower could be described by a number. These charts could be furnished very cheaply for binding up with catalogues, if chromed by the 100,000.

Flushing, N. Y.

S. B. PARSONS.

[We are not at all favorably impressed with the proposition to number the colors. We think it would be a serious error to attempt it. Let the colors be named by all means and in accordance with the popular idea as ascertained by investigation and comparison. But the last suggestion is a most excellent one. If a number of those who issue catalogues would arrange to each take a sufficient quantity of the charts to bind one in each of their catalogues for the convenience of their customers, the cost of each chart would be reduced to the minimum on account of the great quantity that could be printed at one time. And further an immense benefit would accrue through the wide circulation that would be at once given the chart among the very people who would most thoroughly appreciate it. And it would certainly well repay those so circulating it, as an advertisement and in establishing closer relations with customers. What do the catalogue men say? Let us hear from them.—Ed.]

EDITOR AMERICAN FLORIST.—May I suggest that the simplest and cheapest method of distributing your chart of colors is by means of sewing silk. Let a quantity of each color, or shade, be dyed, and then from twenty to forty threads of each be gathered in a little tuft which may be fastened with glue or wire upon folding pasteboards. The tuft form will give not only the surface color that would be reflected from silk fabric, but also the depth of color among the threads. Mr. Battles' article can not fail to be of great value, but I fear he is on the wrong "tack" when he attempts to reduce the number of terms to describe colors. The more nearly indescribable a thing is the more words are necessary to convey an

idea of it. The simple words red, yellow, blue, convey no definite idea, but merely determine a class of colors. To make them definite they must be modified by adjectives as, brick-red, copper-red, blood-red, etc. Texture will also modify the appearance of color, as every artist in color understands, and so we must say waxy brick-red, satiny brick-red, velvety brick-red, etc. Now, when we come to express shades we must again add another class of adjectives—light satiny brick-red, deep satiny brick-red, dark satiny brick-red, etc. Still another class of adjectives are demanded to express brilliancy or dullness, brightness, dazle, glow, etc., which it seems to me are proper terms for a florist to use. They are more poetical, perhaps, than scientific, but the popular side of floriculture is poetical, and so long as words are weak to describe so long must we choose our terms from fire and sea, from sunrise and snowstorm—wherever we can get them best.

Mr. Battles surprised me by the statement that to his mind vermilion was a "dull scarlet," and that there were no blue sweet peas nor pansies. "Grand Blue" Sweet Pea is a pure indigo blue, no purple about it, and Emperor William Pansy is also blue.

RICHARD FERRIS.

[There are some very decided objections to the use of sewing silk as suggested. When attempting to compare the color with that of other objects the sheen of the silk is very confusing. Again the difficulty of dying a fabric to exactly match a given shade is very great. And the expense of such a chart would be very greatly exceeded that of a colored lithograph.—Ed.]

The Conservatories of Mr. W. Brown.

The greenhouses of W. Brown, Esq., Flatbush, L. I., on account of their wealth of rare palms, foliage plants, orchids, etc., are at all times worthy of a visit.

Under the fostering care of genial "Gus" Bennett every plant looks the "picture of health" and well being. "Gus" is a thorough gardener and "chip of the old block," he being the son of the late W. Bennett, who was well known to horticulture and scarcely excelled in his particular branch.

The palm house on entering reminds one of the fairy land we used to read about, with its towering palms and foliage plants, its rockwork covered with creepers, mosses, bromeliads and ferns, all producing a charming effect, and contrasted deeply with the gaudy anthuriums the well colored crotons, dracaenas and the grand display of cattleyas, lilies, calanthes, etc., which combined produce a very remarkable impression.

Besides the above a novel effect has been carried out on one side of the house which has been covered with every conceivable plant that would grow there. The effect produced is fine. Such acquisitions as Anthurium grande, crotons, Pandanus Veitchii, ferns and selaginellas are simply reveling.

An immense piece of *Latania borbonica*, very compact and beautifully furnished, "catches the eye" and appears to be a greater distance through than it is high, which is about 25 feet.

Phenichophorum secellarium, *Martenzia caryotifolia* and the kentias are well represented, as also are many rare varieties not to be matched anywhere. Among the most notable are *Acanthophoenix crinita*, with a spiny stem like the first named and with beautiful silvery

under foliage; *Ceroxylon nevum*, a noble plant with silver also, and *Livistona Hoogendörpii*, very distinct.

A grand feature in one corner of the house is the now famous specimen of *Goniophlebium subauriculatum*, a lovely hanging fern from the Himalayas, grown in an immense tub, it stands on a stool 5 feet high, on the bench, with fronds reaching the floor, they measuring in many instances over 12 feet. Other ferns worthy of mention are *Gleichenia princeps*, one of the grandest of tree ferns, with fronds measuring 15 feet; a masterpiece in the shape of *Davallia Mooreana*, and well grown pieces of *Adiantum trapeziforme* cultratum, *Adiantum Farleyense* and *Davallia fijiensis plumosus*.

Among the foliage plants *Dracena Kirkii*, 10 feet high; *D. Goldiana*, *Croton Mortii*, *Anthurium Andreanum* and *A. Ferrierense* figured well.

The "stove" house presented a pretty appearance, filled as it was with nice young stuff; from the roof hung well pitched plants of the following nepenthes: *N. cincta*, *Henryi*, *Ameisiana*, *Morganae*, etc. I also noted pretty specimens of *Spherozyne latifolia*, *Aloesia Sanderiana*, *Maranta Macoyana*, *Aralia Veitchii* and two representatives of the palms, *Licuala horrida* and *Cocos Weddelliana*. The stage was edged with *A. Farleyense* and *Panicum variegatum*.

A pleasure awaited us as we entered the orchid house, not on account of the galaxy of bloom, but the general health of the phalaenopsis with immense fleshy leaves, all showing flower; the "Cypis" were well to the front, as also were the cattleyas, whose flower sheaths were flat and foretold a great crop of bloom. One piece of *C. Schröderi* with eight sheaths, will throw on an average three flowers apiece, quite a plant!

The rose house in full crop, contains all the leading varieties, also the new Climbing Perle, of which "Gus" speaks in glowing terms; he is growing it on the "stays" of the house.

It is easy to see that Mr. Bennett belongs to the "old school" when you enter houses filled with cinerarias and herbaceous calceolarias, the finest I have seen and as "clean as wheat," the secret of success throughout the whole establishment.

The grounds though now in a dormant state are well cared for during the season, as are also the kitchen and flower garden, but of these I will speak in the near future.

THE DRUMMER BOY.

Exhibitions.

In the smaller cities where an exhibition can not be made a financial success when conducted upon the same lines as those in the large centers of population, a combination of flower show and church fair has been found to be an excellent substitute. While such exhibitions are hardly so educational as the others, they certainly accomplish good and are a very effective advertisement for the florist supplying the plants and flowers.

A recent successful venture of this kind was made by Mr. H. G. Higley, a florist at Cedar Rapids, Ia., and as a suggestion in this line we present herewith an illustration engraved from a group of photographs taken during this exhibition. It was held in a large tent erected on a centrally located vacant lot and the plants and flowers kept much better under this cover than in a closed hall. It might with reason be expected that in November the tent would have been uncon-

fortable without heat, but such was not the case in this instance, still such mild weather can not of course always be depended upon at that season.

The plan upon which this affair was conducted was as follows: Mr. Higley arranged to erect the tent and supply the plants and flowers, he to have the door receipts, the churches each to erect a decorated booth on the space assigned them and to have the benefit of all the sales they could make. This arrangement seems to have been very satisfactory. The attendance was very large and the affair was quite a financial success. In addition the florist received of course a great deal of advertising, the value of which must prove considerable to him in time. This particular exhibition was styled "The Mikado's Garden," it being mainly a chrysanthemum show, and most of the booths were decorated in Japanese style. The young ladies who presided at them being also arrayed in the dress peculiar to the subjects of the Mikado.

Ornamental Fruited Plants.

Some demand has already appeared for plants of this character that can be used for decorative purposes, and this demand will probably be stimulated as a better supply of such plants becomes available, for the beauty and lasting qualities of a well berried ardisia, for instance, will prove a sufficient recommendation as the plant becomes more widely known.

And while there will probably be a special call for plants with bright berries at the holiday time, yet their use will not be confined to that period alone, and if well grown will be readily found many purchasers in the regular course of trade.

In the front rank of plants that are grown for their berries is *Aralia crenulata*, to which reference has already been made. This is the most prominent representative of a somewhat extensive family and though introduced from Mexico about three quarters of a century ago, yet is not nearly so common as its good qualities deserve.

The best and most shapely plants of this ardisia are obtained from seeds, and early in the spring is a good time to sow them. The seeds may be sown in pans or boxes of light soil which should be placed in a moderately warm house, and under favorable conditions will soon germinate. The special object being to keep these plants strong and stocky, they should be pricked off into boxes as soon as they have made a few leaves, and in which they may remain until potted off into 2½ or 3-inch pots, and from the latter they may be shifted on as becomes necessary into 5 or 6-inch pots, and in all cases the shifting operation should be performed before they become so pot-bound as to lose color.

A moderately rich, light loam is suitable as compost, for though very useful in certain soils yet for ardisias peat is not absolutely essential.

Regarding temperature it is well to avoid extremes, as when kept too warm these plants are apt to become dirty, scale being quite partial to them under such circumstances, and if kept too cool their growth will be slow and they may also suffer from over-liberality in the matter of watering, especially when in a low temperature, so it would seem that it would be the wisest plan to observe the injunction to "be temperate in all things" when growing ardisias, and to regard a temperature of 50 to 55 degrees as the happy medium.



A COMBINATION OF FLOWER SHOW AND CHURCH FAIR.

The improved varieties of *Solanum capsicastrum* will also find an opening in this list, and being extremely easy of cultivation should become very popular.

These should also be raised from seeds and may be grown in a greenhouse temperature successfully, the essentials of their cultivation being a light rich soil and an abundance of water. Among larger growing plants of this class should be mentioned *Aucuba Japonica*, one of the hardiest plants for decorative purposes that is to be found in the market, and doubly attractive when covered with a crop of large red berries.

To secure the latter, however, fertilization is necessary, as the male and female organs are not combined in the same flower. The *aucubas* will stand much exposure and abuse and in fact are best in rather small pots, as when given too much liberty they are more likely to run to growth than to produce berries.

Some of the smaller growing oranges are also highly ornamental, though any of these will be somewhat slower in attaining a salable size than the plants previously referred to.

Very pretty examples of Mandarin oranges in 6 and 8-inch pots have been seen during the present season and another variety having still smaller fruits than the above is the so-called Myrtle orange, the fruits of which are about the size of walnuts and the foliage somewhat similar in size and shape to that of a myrtle.

One more useful plant of this class though of diminutive size is the "Bead plant," *Nertera depressa*, which spreads rapidly over the surface of the ground its tiny bright green leaves so as to form tufts, the latter being dotted over with bright orange berries about the size of small peas.

This plant may be easily increased by division and prefers a cool house, and also to be shaded from direct sunlight.

W. H. TAPLIN.

Looking Backward.

As each succeeding year draws to its close it is not inappropriate that we look back and review the work we have done, the seeds we have sown. Have they been

of the choicest varieties which have, or will, produce specimens and varieties so grand and beautiful that we can be proud of the examples that our labors have contributed to add to Flora's realms?—or have they consisted merely of a very ordinary stock intermixed with a positively vile strain of obnoxious weeds that will not only ruin our own gardens but carry devastation and ruin as far as their influence reaches?

Some of us are growing old in years and in our business, and without realizing it possibly, are looked upon by the young men with whom we are thrown in contact as worthy—shall we say models? How important then that our example be such as will only inspire these coming florists to the purest thoughts and highest motives. How important for instance, that a gentleman once honored by being elevated to the chief magistracy of a great city should in addressing a company made up largely of young men utter no word that he would not willingly let his mother hear. And while we should guard our utterances we should also remember that we have no right at our suppers or

banquets, or conventions or anywhere, to tempt the appetite for strong drink by placing it within the reach of others who may not have courage and strength of will to resist the sight of it; not one of us but can point to some "poor worthless sot" who once stood high as "the grower of the finest stuff in the neighborhood." This should not be so. Our trade is one of the grandest and most emulating, and the world calls for improvement continually, the rising generation should excel the present in all points of excellence, freed from the evils that now exist.

ALEX MURDOCH.



New Carnations.

Mr. E. C. Hill, of Richmond, Ind., recently exhibited at a meeting of the Chicago Florist Club bunches of specimen blooms of the new carnations raised by Mr. Fred Dorner, of La Fayette, Ind., and purchased by Mr. Hill. They were so excellent that we had photographs made of some of them and present herewith illustrations of individual flowers, life-size, engraved from these photographs.

The one named H. E. Chitty gives special promise of usefulness. It is a cross between Century and Grace Wilder, and is in the way of the last named sort, but deeper in color. But in addition to its color the eye is at once attracted by the strong, sturdy stems which carry the flower boldly erect and are beautifully clothed with foliage.

Edwin Lonsdale is a very large flower of a beautiful salmon pink shade, and is certainly an acquisition, though it does not have the strength of stem possessed by the foregoing.

Hoosier is a beautiful shade of scarlet and a remarkably large flower, the blooms being borne on good strong stems.

The other varieties—and all were promising—were Fred Dorner, scarlet, finely fringed; Mrs. Harrison, large, pure white; Ben Hur, pink; Annie Wiegand, pink, finely fringed, a seedling from Grace Wilder, and George Hancock, a strong, well built up flower of good substance, creamy white, finely fringed.

Carnation Lamborn.

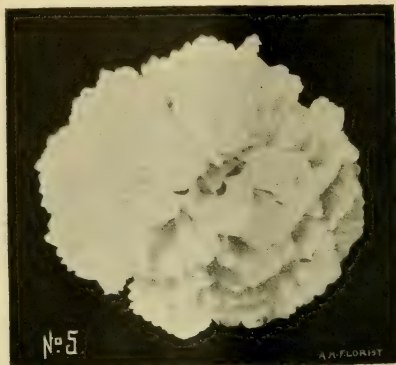
How about the keeping qualities of Lamborn? With me it is decidedly lacking in this respect. I have also heard those say who have handled it in quantity that it was the poorest keeper of all the carnations without exception. Valuable for immediate use, but not for shipping.

Elmira, N. Y. GROVE P. RAWSON.

Best Carnations.

A young florist would like to ask a question from the older and more experienced members of the craft. Which are the best selling and most profitable carnations to raise in the winter season, say from four to six kinds? A. S. L.

Some specimen blooms of the new carnation, Louise Porsch, have been sent us by Mr. John McGowan, Orange, N. J. They are in the way of Buttercup, but



CARNATION EDWIN LONSDALE.

the plant is said to be a stronger grower and free bloomer. It is a cross between Albert McGall and Buttercup.

Easter Plants.

In response to a query regarding the proper treatment of Easter plants at this time, Mr. James Dean, Bay Ridge, N. Y., has kindly prepared the following at our request:

"Easter coming early this year, on the 29th of March, it would be well for those in the trade who are forcing plants to be on their guard. At present it looks as if we were going to have a cold winter and it will not do for the grower to let the temperature of his houses run low for his Easter plants when Easter comes in March.

"Lily plants to be in flower for Easter should for the smaller bulbs be six inches above the pot, the 9 to 12 inch bulbs 12 inches above the pot. The flower buds should now be developed, which will be readily known by an enlargement of the top of the plant, or crown as it is called, which can be plainly felt by a slight pressure of the hand.

"Lilies in the above condition, from date will require a night temperature of at least 65° until the buds are well advanced in size and the grower is certain he will be in time with his flowers. It will then benefit the flowers to reduce the temperature and thus harden them, which will certainly increase their market value, they finding ready sale when those that are forced during the last month at a temperature of 75° to 80° cannot be sold for one half the price of good flowers that are properly grown.

"The hydrangeas will require about the same temperature as the lilies, the flower bud should now be ready to burst open. Be careful in syringing the plants at this time, at night or during cloudy weather, as the water remaining on the flower bud in its early stage is liable to rot it, the young leaves which surround the bud holding the water. It should be the grower's aim in forcing the hydrangea to have them far enough advanced so that he can maintain a lower temperature for at least ten days before the plants are

wanted. This will give the flowers a brighter color and enable the plant to stand cold draughts of air without wilting.

"Spiraea Japonica should now be brought in from the cold frame into a temperature of 55° at night.

"It is yet too early to begin forcing Rhododendrons, azaleas and genistas, for Easter, they requiring very little forcing."

Orchids in Flower at Whitinsville, Mass.

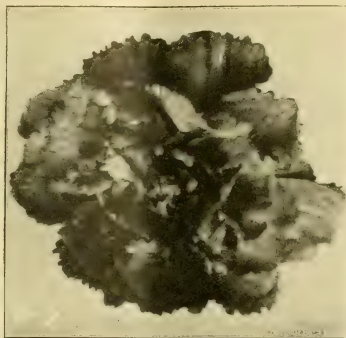
For some time the fine Dendrobium Formosum giganteum has been in flower here in the conservatories of Mrs. J. W. Lasell. We learn from English gardening papers that most orchid growers there do not succeed well with it, many managing to flower the plant only once and having to import a fresh supply every spring from Burmah and the Andaman Islands. Under the excellent management of Mr. McWilliam this dendrobe has done well here. Four plants received from the Messrs. Low, of Clapton, in June 1885, are flowering now the sixth time, are in splendid health and promise to keep on flowering yearly for any length of time.

Mr. McW. treats his plants to a three months' rest after flowering, at 45° temperature, which he thinks is one of the chief points to success: then he gives a temperature of 55° till growth is started and 70° to 75° till growth is finished; when ready to flower the plants are again put in a temperature of 55°. Grown in baskets, with rough fibry peat, charcoal, crocks and clean fresh sphagnum, and temperature as above, the plants ought to do well. This year the plants have had six, eight, nine and the largest stem twelve, perfect flowers (and one damped off before opening). The longest stem is 28 inches, circumference of same 2 1/2 inches, length of leaf 6 1/2 inches, width 2 1/2 in., 19 leaves on the stem. The length of the flower 5 1/2 inches, width 5 inches, petals 2 inches, sepals 3/4 inch, lips 1 3/4 inches. This dendrobe is well worth all the care required, and when got to flower as seen here ought to make any grower happy at the result of his skill.

The photograph of three plants (the



CARNATION H. E. CHITTY.



CARNATION HOOSIER.

fourth being out of flower) will show something of the plants as grown under Mr. McWilliam's care. W. S. December 15, '90.

[The photograph showed three plants in splendid bloom.—Ed.]

Seeds of Pandanus Utlis.

A Buffalo correspondent asks how to treat the fruit of *Pandanus utlis* to get the seeds out, and in response to our request Mr. W. H. Taplin has prepared for us the following answer:

"The seeds of *Pandanus utlis* are enclosed in tough, woody cells within the so-called fruit, and the only satisfactory method of getting them out is to allow nature to do the work.

"This is accomplished by planting the fruit entire, and in due time the seedlings issue from the base of the latter and come up in the form of a little clump, these being separated from the parent fruit when large enough to handle conveniently and then potted up individually.

"The number of seedlings from each fruit is rather indefinite, sometimes being but one or two, and in other cases running as high as ten or twelve."

Construction and Preservation of Greenhouses.

Since the *Am. Florist* began its career, numerous articles have appeared in its columns in regard to the proper way of building greenhouses, and also what measures and precautions would insure their preservation and continuance in a servicable condition for the greatest length of time.

A year or more ago the *Am. Florist* gave some data concerning the length of time that several greenhouses had been in use, and at various times the subject "what are the most adaptable and most effective preserving mediums" has been treated of in an indifferent manner. The subject of "how to build greenhouses" has been quite thoroughly discussed, but that of preserving them after they are built has been very greatly neglected.

The greater number of greenhouses are not properly constructed in the beginning, and very feeble, if any efforts are made to prevent decay, and even when such houses

are regularly painted, their defective construction will not permit the owner to reap the benefit of this secondary mode of preservation.

The writer anticipates a good portion of murmuring and criticism from the older and wiser class of readers, but to these "sage fathers" allow me to say, that I make these contradictory assertions with profound respect and deference to their greater experience, and consequent authority upon such subjects.

I have very often heard inquiries and remarks made about what is the best paint and also complaint of "peeling off." For greenhouse painting I think that the best white zinc, mixed in pure raw linseed oil, with a slight addition of good dryer is the best. It should only be applied when the wood is perfectly dry, and it should not be made too thick, especially the first coat, and the second coat should not be applied until the first is perfectly dry and hard. In this way, and by repainting with one coat of ordinary thickness every two or three years, the wood becomes practically impregnable to atmospheric changes and consequently decay is impossible. This is about all that constitutes the seemingly difficult problem of preventing decay.

And now I will give my opinion, based upon personal observation, as to what is the proper way of building greenhouses, or portions thereof, so that when paint is applied to the exposed surfaces, it will be of real benefit.

In the first place, how often we see that hum-drum idea, both in print and in reality, about using rough lumber for the inside or first thickness of the regulation double boarded wall. This is just the source of all evil in regard to paint not lasting. Not long ago I visited a prominent grower's establishment, and in walking along the outside of a greenhouse I saw several places where water was dripping from the lower edge of the boards. Upon closer examination I found that it came from the inside of the wall. I went into the greenhouse and there I beheld the antiquarian's delight, viz: Rough unmatched hemlock boards, and the water soaking into the wall.

Now how is it possible for paint to adhere to the outer surface of the wall and check decay, when the very elements which

it is intended to resist, are doing the very thing which we wish to prevent, from the most advantageous point of attack, viz: the inside of the house.

In my estimation the model greenhouse wall is constructed in the following manner: Set good locust posts four feet apart and deep enough to prevent the house from spreading. Upon these place the gutter of good sound pine, 10x4½ inches. Next take good quality pine clap boards, paint the ends and where they come in contact with the posts, and nail on the inside of the posts with the planed side next to the posts. After the first thickness of boards is nailed on, give the rough side a thorough oiling with crude petroleum, then tack on the sheathing, I think tar paper is preferable, and then nail on the second thickness of boards, having previously oiled the rough side with the crude petroleum and painted the ends. When the wall is finished give one coat of paint according to directions and when dry, fill all nail holes, etc., with putty and apply the second coat of paint.

This gives a perfectly clear wall, not marred by unsightly divisions and water traps such as are found in all houses where the posts are inside of the house. And the outside is protected to a great extent by the projecting gutter. A house built in this way will last 25 years instead of the usual 10 or 15 years.

Rahway, N. J. JOHN W. SALING.

Catalogue Premiums.

Mr. W. A. Harkett in the issue for December 25 hits the nail square on the head when he says "is not the premium business being overdone." Last year we received catalogues from some forty to fifty wholesale and retail florists, and about one-third of this number offered plants with premiums in their retail lists, which when both were figured up, cost less than the same firm offered the same plants for at wholesale. Is this fair to the retail florist who has bought a large portion of his stock from these same firms? We would like to hear from others on this point, including the editor of the *Florist*.

C. H. B.

It is certainly very unwise for a business man to sell at the same price to both wholesale and retail buyers. And if the

premiums given are of such value as to reduce the price of the whole to wholesale rates, it is practically the same as selling direct to the retail buyer at wholesale prices. We believe that some of the extravagant premium offers and collections offered are due to ignorance, and we might almost add lack of common sense, on the part of the maker of the catalogue. He goes some other catalogue man "one better" without knowing whether he can afford to make such an offer or not, and without stopping to think that he has by this means reduced his retail price down to perhaps even below wholesale rates. And that it costs more to sell a thousand plants at retail than at wholesale every one knows. This and similar questions will continue to be a source of vexation until the actual cost of growing each plant to a marketable size is ascertained by each grower, and a more careful computation is made of the comparative cost of marketing the plants at wholesale and retail. When prices are based upon the actual cost of producing and marketing instead of upon guesswork there will be a change, for no man will drop his prices below the cost fine when he knows where it is. As matters now stand we seriously doubt if one grower out of a hundred knows when he has cut prices below the cost of producing and marketing.—Ed.]

Christmas Prices.

ED. AM. FLORIST.—It is gratifying to a retail florist to read the reports from all the large trade centers that flowers were plentiful, yes, too plentiful, it seems, at Christmas. I hope the growers of flowers will come to their senses sometime if they do not at an early date. I am of the opinion they will kill the goose that laid the golden eggs in the shape of dollars at Christmas, and the goose undoubtedly done it to some extent already. In your last number you tried to explain the plentiful supply of flowers at Christmas with the statement that the great additions of new houses and establishments devoted to the production of flowers is the main cause of increased supply. Of course this cuts some figure in the grand total, but I have another explanation to offer, from not only mine but several brother retailers' experience. Not only this year but even a year ago, we experienced a great falling off of our regular flower buyers at Christmas. From my own experience I know some of my customers who got caught at Christmas two years ago, because they ordered heavily without asking prices, and when they received their bills swore they would never buy another flower at Christmas, and I know several who have kept their word. They will come in and buy a few days before Christmas instead. We can not give any reasonable excuse for charging 50% more at Christmas than three or four days before. This year there was a very noticeable absence of the usual flower buyers. The people who did patronize the florists were such as do not buy flowers very often, and consequently were not posted as to the ruling prices at other times, but no doubt they will find it out one by one, and thus I expect to see the florist's business again divided down so before long it will be the same as New Year's day. This year New Year's day was no different from any common day; probably a little better than an average day, but not much.

Now, I think there is no denying but some of the florists who control the principal markets, and thus regulate prices for the country, whether they be the

wholesalers, the growers, or both, are injuring the business to a great extent by their insisting on double prices for everything at Christmas. You said in the last number of the FLORIST, commenting upon the situation, "It seems flowers are produced even at Christmas in larger quantities than can be sold at paying figures," or words to that effect. Now you, as well as every body in the trade, know that if roses can be produced a few days before Christmas at 8 to 10 cents there is no reason why they should not be sold at a paying figure even then at less than 20 or 30 cents. And this is not all, the retailer has to be satisfied with stuff that a grower would not think of bringing to him a week later. My reason for asking you to give space for this in the AMERICAN FLORIST is that I think it is a question that will need a little airing, and I hope it will be discussed through your columns and some good come from it.

St. Paul, Jan. 7.

ATG. S. S.

Harvesting Pampas Plumes.

The group of photographs from which our illustration engraved gives a number of views upon the grounds of Mr. Joseph Sexton, proprietor of the Santa Barbara Nursery, Goleta, California. In the lower left hand corner is a single plant with the figure of a man in the foreground showing the comparative height of the plant which is probably a specimen. The other views show the plumes cut, and going through the processes of curing, preparing and packing for market. Mr. Sexton was the first to grow the plumes in quantity for market and the business has grown into a very considerable industry.

New York.

The New York Florist Club gave its annual dinner "etc. etc." at Morello's famous restaurant last Saturday night. All branches of the trade were well represented, nearly one hundred sitting down to the elaborate spread. The long tables were formed square-like and were most beautifully decorated. Each prominent artist of the city did his best and the result was a grand exhibition of table designs. Beauties that are usually sold "by the yard" were arranged in tall vases on the four corners of the tables, baskets of tulips, hyacinths, jonquills, lily of the valley were placed around the other edge, while designs in roses adorned the center. The boutonnières even were "miniature gems of art."

There were many interesting bits of prospective scenery, scattered here and there. In one spot Mr. E. Asmus sat beneath a beautiful bunch of lilac, and the word was passed round that "the wind was blowing through Asmus' lilacs." In another spot Mr. John N. May was over a basket of his handsome Laings, while Mr. John Taylor's face looked over the beautiful basket of Madame Cusins that lay before him. It was remarked that the Climbing Perle possessed some of the traits of the sunflower, as the ones placed before Charlie Anderson showed a decided tendency toward that gentleman. It was a happy crowd. There was music and song by the club's musicians, while the elaborate menu was consumed.

When a just verdict was pronounced on the same, the President, Mr. Alex Burns, opened the "third programme" by an address of welcome to the visitors; the Secretary, Mr. W. S. Allen, then read letters of regret at being unable to attend from many prominent men throughout the Union, among which was one from

Mr. Stewart, of Boston, (the Secretary of the Society of American Florists) deeply regretting his inability to attend owing to a meeting of the Executive Committee at Toronto, and expressing the good wishes of the Boston Club. A call for three cheers for Stewart was enthusiastically responded to. Great regret was expressed at the absence of Mr. John Thorpe, owing to illness. (There was a vacant chair draped in smilax for your John.)

Mr. O'Connor then sang a song. The "Health of the Boston Club" was also responded to by Mr. Woods, the representative from the Hub. A banjo solo and topical song by Mr. Johnson followed, when "The Health of the N. Y. Club" was responded to by Mr. A. Burns. Mr. Forsterman, the famous oncidium grower, then sang his favorite song.

The Society of American Florists was eloquently responded to by Mr. John N. May, who expressed the hope that every florist in the country would join the society. A "stump speech" and "darky characteristics" were given by Mr. Foley.

The Retail Florist was responded to by Mr. Lawrence Hafner, the well known and popular artist, who dwelt at great length on the possibilities of the future of our trade. Mr. Hafner was the orator of the evening, his response made a great impression and he resumed his seat amid tumultuous applause.

The grower's cause was well espoused by Mr. Chas. Anderson, while "The Seeds" was well covered by Mr. McAllister.

"The Wholesale Florists" was responded to by Mr. John Young, and The Rubber Hose was "mended" by Mr. Hull. Horticultural architecture was very ably discussed by Mr. Chas. Weathered and Mr. Wm. Siebrecht spoke to the toast "Fraternity."

After numerous songs and solos Mr. Ernest Asmus gave an original dramatic sketch. After which an attempt on the part of Mr. Wm. Elliott to sell the house at "auction" brought the long list of pleasant surprises to a close and ended an event that can never be forgotten by those who had the good fortune to be present.

Business during the week was very good taking everything into consideration. There were many large balls and receptions given during the week, making prospects much brighter. Bulb stuff is coming in very freely. Violets are selling fairly well. A steady demand for fine carnations. The hybrids coming in are poor as yet. Lilac is very good and selling well. Little demand for orchids. Roses plentiful. What will you have for Easter? is a question already asked.

JOHN YOUNG.

Chicago.

Business is decidedly poor for the season of the year. In consequence of the high demand prices have been cut all to pieces, in many cases they are absurdly low. The recent holiday experience seems to have entirely demoralized the market, and many sellers are as quick now to cut prices as they were to hold them up before Christmas. Madam Perle's N. Y. hotel has been bought at \$3 a hundred, Mermets and Brides at \$6, La France at \$8, and Bon Silenes at \$2. Such prices at this season of the year have never been known here before. Violets are down to 75 cents a hundred, long stemmed fancy carnations have been bought for \$2, a hundred and Roman hyacinths at the same price. One concern bought 3,000



carnations the other day for \$30, and these were retailed at 25 cents a dozen. Violets were also retailed at the same place for 25 cents a bunch of 25 blooms.

There is a big supply of all flowers except American Beauty roses. The cut of violets is simply immense.

One grower has sent in a lot of cut blooms of the freesia, but it seems impossible to work up a demand for them here.

Frank Bentley reports a growing demand for orchids. The flowers of the small varieties of cattleyas such as *C. Percalliana* retail readily at \$1 each while no difficulty is experienced in obtaining \$1.50 each for blooms of *C. Triane*. He gets some few sprays of *Phalenopsis amabilis* which he sells at \$2 to \$3 a spray. He finds but little demand for cypripediums and has to work off those he gets by using them up in baskets and similar arrangements. Good sprays of *Odontoglossum crispum* retail at \$1.50 to \$2 a spray and *lilias* at 50 cents a flower. Some of the oncidiums which have good sized flowers sell well at the same price as the odontoglossums. He finds difficulty in disposing of the blooms of *Lycaste Skinnerii*. They don't seem to take very well with buyers.

At the meeting of the Florist Club held last Thursday a committee was appointed to arrange for a social meeting of the members and their wives and sweethearts. There will be music and supper followed by dancing. Messrs Hauswirth, Bentley and Curran have the matter in charge, and cards will be issued as soon as arrangements are completed. The adjourned session was held at a new alley, which change resulted in some curiously constructed scores. Future adjourned sessions will probably convene at the old place.

Charles Nelson will soon build a range of greenhouses at the corner of Robey street and Montrose boulevard. He will grow cut flowers.

Paul Krohn, who was some time since seriously injured by being thrown from his wagon while driving, is able to be around again but is not yet very strong.

Mr. A. Dimmock, representing F. Sander & Co., was in the city a few days since and visited the various orchid growers.

Tom Rogers thinks he should now succeed to the title of "King fakir." He says they used to call him the "Prince fakir," and now Neal is gone he sees no reason why he should not succeed to the Kingly title formerly worn by that worthy. But it is claimed by others that the title can not yet be legally transferred from 149 State street.

The Horticultural Society of Chicago held its first quarterly meeting last Saturday afternoon at the Palmer House. There was a large attendance and much interest was manifested. Fifteen new members were added to the list, among them were Mrs. A. Dunlop and Messrs P. D. Armour, J. Q. Adams, J. F. Hurlbut, Charles H. Wacker and J. F. Tucker. There was some discussion as to the advisability of an attempt to give a mid-Lent rose and orchid exhibition, and as a result a committee was appointed to confer with the Florist Club regarding same. That there might be no difficulty of a financial nature a guarantee fund of \$500 was suggested, and in a very few moments the sum of \$500 was subscribed by those present and the paper placed in the hands of an active member to secure the remainder. A committee of three was appointed to draft by-laws and an order of business. The meeting adjourned subject to the call of the president.

Paterson, N. J.

Well, how was your holiday trade? Was it up to an average of previous years? Do you think the McKinley bill will eventually wipe out all traces of the florist's business? These are some of the pertinent questions asked about this time. As far as ascertained the holiday trade in this section was quite up to the average, and experiences would seem to indicate that the florist's trade is able to maintain its own under most trying and untoward circumstances. It is true there are not so many fancy pieces made up for Christmas and New Years as formerly, but then the number of orders are greatly augmented, and the flowers rapidly vanish in the shape of \$2, \$3, \$5 and \$10 assortments put up in neat boxes and delivered at a great saving of time, labor and expense over former methods. And although the orders for fancy, expensive baskets are not so frequent as formerly, they still come along occasionally and add variety, charm, and profit to the business. Of course these observations apply more particularly to Christmas, as for some years it has become more and more manifest that New Years, as a period of extravagant expenditure and display, is greatly surpassed by Christmas.

The December just past was far more characteristic of the season than several of its immediate predecessors. This was particularly the case with December, 1889, when, on account of its extra mild temperature, many viscerers predicted that the Gulf Stream was encroaching so close to our shores that winter weather and its attendant pleasures would only be regarded as rarities of the past, and natural ice a phenomenon described by the aged to the astonished senses of their children and grandchildren. But it is

evident that the Gulf Stream is not climbing over New Jersey this winter anyway, as we are already harvesting good ice, and the fact that the mean temperature of the December just past was about thirty-two degrees lower than that of December, '89, is also quite favorable. Christmas day of '89 was remarkable for its warmth, the thermometer standing at 65° nearly all day, reaching 55°, the lowest point, only at 10 p. m., with a mean temperature for the day of 62°, while the thermometer for the Christmas just past, ranging at 20°, 25° and 15° for morning, noon and night, gives us a mean of 20°. Only think, a difference of over 40° in the two Christmas days! The lowest point touched during the month was on the night of the 28th, when 5° was indicated about 10:30 p. m., nice clear, ten partly clear, and twelve all cloudy days, the atmospheric divisions. The three or four fine days preceding Christmas were a wonderful help to the growers of flowers. Christmas day was also fine, but was followed on the 26th with a considerable snow-fall and miniature blizzard.

January 2, '91.

H. E. CHITTY.

News Notes.

ELMIRA, N. Y.—Holiday trade excellent. Better than last year. Increased demand for roses, carnations and violets.

KALAMAZOO, MICH.—Samuel Batson is a new florist here who is not mentioned in the directory and he should be added to the list.

NEW ROCHELLE, N. Y.—The Rose Hill Florists' Society will give its first annual ball at the town hall Thursday evening, February 9.

JANESVILLE, WIS.—Holiday trade in flowers about the same as last year. Could have sold more but the high prices made sales next to impossible. Holly and green sold well, more demand for holly wreaths and stars than ever before, Christmas trees were in good demand. Don't think the trade much benefited by putting the prices on flowers so high at holiday time.

UTICA, N. Y.—Holiday trade was very good considering the high prices which it was necessary to pay for what stock was ordered from other points. Roses sold at from \$1.50 to \$3.50 a dozen. Carnations, narcissus, hyacinths, poinsettias, and nearly all other flowers sold at good prices. Nearly every florist sold out clean, and could have sold more if to be had at anywhere near reasonable rates. But florists did not dare to order at the rates quoted, knowing their customers would not pay the prices it would be necessary to ask.

WASHINGTON, D. C.—The holiday trade in cut flowers has been exceptionally satisfactory here this season. The supply was large, but the demand equally so and prices remained firm. Plants for decorative purposes were less in demand than usual, but the falling off was slight. Roses, especially La France, De Watteville, Mermet, Gontier, Am. Beauty, Meteor, Cook and Niphetos, were fine and abundant, commanded good prices and so far as I could learn every one of the prominent dealers sold out his entire stock of them.

SPRINGFIELD, MASS.—The annual meeting of the amateur horticultural society was held January 2 and the following officers

were elected: President, C. L. Burr; Vice-Presidents, E. D. Stock, Joseph Aumer, Mrs. Helen M. Packard; Secretary, G. H. Lapham; Treasurer, L. D. Robinson; Directors, C. L. Simons, G. E. Gengenbach, E. A. Graves, J. K. Burbank, G. H. Wells, J. S. Landers, S. T. Hammond, Frank Belden, G. E. Phelps, L. D. Boyington, H. P. Hunt, M. R. Warner, D. P. Luddington, C. D. Goodell. The secretary reported the membership was 540, an increase of 266 during the year. The treasurer's balance sheet showed that \$1,006 had been received during the year, the expenditures being \$492. The retiring president, C. L. Simons, was given a vote of thanks.

ORANGE, N. J.—At a recent meeting the New Jersey Floricultural Society formally resolved to disband. The society was organized four years ago and has held splendid exhibitions each year, but the patronage accorded it has been insufficient to meet expenses. At the meeting the matter was discussed at length and it was agreed that in view of the lack of appreciation on the part of the public in the aims of the society it would be unwise to continue its existence. It was decided to pay 50 per cent on the premiums of the show given last November. A vote of thanks was tendered to the retiring officers, and then a resolution disbanding the society was adopted. It is probable that out of this society will be organized a florists' club, but no definite plans have yet been made.

Copper Sulphate for Lilies.

Rev. C. Wolley Dod stated recently in the *Garden*, and also at a meeting of the scientific committee, that he has found very good results with commoner lilies as well as with roses by the use of sulphate of copper as a preventive. Three pounds of sulphate of copper, with costs wholesale less than 3d. a pound, are dissolved in water, and two pounds of quinine, separately. These solutions are then mixed together in ten gallons of water, and splashed upon the young growth, to which it does no harm. "I have found this is also very useful for the cure of the mildew (*Peronospora ficariae*), which has proved here so destructive to the large variety of Christmas roses. Another remedy recommended for mildew is to dress the surface of the ground in early spring before growth commences with finely powdered sulphate of iron. One pound is sufficient to mix in a wheelbarrow load of soil, and will dress a large surface. I have seen this treatment recommended in the *Kew Bulletin* to prevent potato blight. I have used it for lilies and it seems successful."—*Gardeners' Chronicle*.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany payment. Plant ads. not admitted under this head.

SITUATION WANTED—By practical rose and cut flower grower. Good references. Address: Box 1, Central Valley, Orange Co., N. Y.

SITUATION WANTED—By a German gardener; N. aged 30; single; competent in all orchards, private and commercial. F. H. PERA, Lagrange, Ill.

SITUATION WANTED—As gardener and florist; can give good references. Address: W. W. DEGRAU, Hudson, Summit Co., O.

SITUATION WANTED—By a florist and gardener, thoroughly competent, private or commercial. First-class references. Address: H. V. 25 S. 4th St., Harrisburg, Pa.

SITUATION WANTED—Seedman wants a permanent position in a wholesale house; 12 years' experience; best of references. E. A. VIZIER, 225 High Street W., Detroit, Mich.

SITUATION WANTED—First class florist, to take charge of commercial or private parties, age 29, good testimonials. State particulars, etc. FLORIST, Box 95, Kalamazoo, Mich.

SITUATION WANTED—By a German florist on commercial or private place, grower specialty of cut flowers, mushrooms, palms and vegetables; 35 years old, sober and steady; references. Address: J. H. COUS, 21 Rockwell St., Cleveland, O.

SITUATION WANTED—By florist and gardener, 10 years practical experience in all branches of horticulture, single, age 28. Best of references. Address: THOS. McKENZIE, care Mrs. Roberts, 27 Rockwell St., Cleveland, O.

SITUATION WANTED—By middle aged married man, no family, sober and steady, in a private place. Experienced in every branch of horticulture, good indoor grape and rose grower. Best of references. Address: J. H. COUS, care American Florist.

SITUATION WANTED—By a single young man, American, as second gardener on private place. Experience in orchard and rose growing and all other branches pertaining to the profession. First-class references—present employer can be consulted. CHAS. R. COOK, care John Hogg, Sing Sing, N. Y.

WANTED—A few hundred good bulbs of Chinese plants. J. C. VAUGHAN, Chicago.

WANTED—About 400 feet of 4-inch greenhouse pipe, also one Hitchins boiler No. 18. J. H. ELLIS, Hillsdale, Mich.

WANTED—A young man conversant with the seed business as a salesman; German preferred. Address: J. H. ELLIS, Hillsdale, Mich.

WANTED—Young man, German, with some knowledge of greenhouse business; wages \$15 per month and board. G. DEMME, Eau Claire, Wis.

WANTED—To rent some greenhouses in a good locality within 15 miles of Boston with some land and house connected, must be in good repair. Address care Sam. Parsons, 229 Tremont St., Boston, Mass.

WANTED—A young man with some experience in greenhouse work; must be sober, industrious and willing to work; steady place for the right man. Address, stating wages, Lock Box 178, Sharon, Pa.

WANTED—An active, progressive greenhouse gardener, who could at times assist in order and packing department of a large commercial place. Give references and age. Address: G. G. LOCK BOX 1018, Philadelphia.

WANTED—Active business man with cash to take an interest in first-class florist business, well established, 8 greenhouses, 100 plants, heated by steam; well stocked and in good condition. Address: J. CLIFF, care Am. Florist, Chicago.

WANTED—Gardener to take charge on or before the first of April of a private place within 10 miles of New York, must be thoroughly up to growing of vegetables, small fruit, flowers and grapes both in open ground and under glass; will have to board his man. Address giving experience, references, age, nationality and wages. I. G. Postoffice Box 50, New York City.

FOR SALE—One Hitchins No. 3 Conical boiler. Address: J. H. ELLIS, Hillsdale, Mich.

FOR SALE—A country hotel with greenhouse, in a prosperous Connecticut town. For particulars address: HOTEL, care Am. Florist.

FOR RENT, or will sell four houses, 6x12 each, heated by steam, in a live western city, over 100,000 population. J. T. C. care American Florist.

FOR SALE.

Five greenhouses in town of 60,000, good shipping facilities, railroad and canal, 20 acres, directions. One of the best openings for a live, capable man. Property sold at a bargain. Some capital required, good security for balance.

X. Y. Z. care American Florist, Chicago.

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giving a complete and accurate list of the Florists, Nurserymen and Seedsmen of the United States and Canada is

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Price, \$2.00.

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BENNETT ROSES**OUR SPECIALTY.**

LA FRANCE, METEOR,
PERLE, GONTIER,
BON SILENE, SUNSET,
MERMET, NIPHETOS,
THE BRIDE, AM BEAUTY.

Fine 2½-inch plants in fine condition. WRITE IMMEDIATELY for special prices to

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Dwarf Budded Roses.

The stock we offer this season is in unusually fine condition and includes all the leading varieties.
Anna de Diesbach,
Alfred Colomb,
Baroness Rothschild,
Baron de Bonstettin,
Boule de Neige,
Capt. Christy,
Fisher Holmes,
Gen. Jacqueminot,
John Hopper,
Louis VanNoutte,
La France, \$12.00 per 100; \$11.00 per 100.
A fine lot of Marceuil Niels with canes 10 to 12 feet long \$1.00 each.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

STRONG AND HEALTHY ROSES

2-inch, best varieties, 100 or 1000.
MARGUERITES; PETUNIAS; ABUTILON
GOLDEN FLEECE; PRIMULA OBSCURA;
AZALEA; CINERARIA Hyb.
KIDA; ENGLISH IVY;
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CARNATIONS, Rooted Cuttings Standard Vars.
CHRYSANTHEMUMS, Rooted Cuttings
Standard Vars. Write for prices.

PROBST BROS. FLORAL CO.,

1017 Broadway, KANSAS CITY, MO.

IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best results to the florist. Blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000 at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.
The best and newest of CHRYSANTHEMUMS,
CARNATIONS and general greenhouse stock.
Trade list mailed on application.

JACOB SCHULZ,
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E. G. HILL & CO.,

RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAPLES:

ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for florists.

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NEW AND RARE PLANTS,

HARDY PLANTS,

Orchids,

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CUT ORCHIDS AT ALL TIMES.

Mention American Florist.

ORCHIDS.

Established and Fresh Imported plants, mostly useful for Cut Flowers, at very low prices.

Write for our Price List.

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**ORDER NOW FOR SPRING TRADE****Hardy Shrubs for Easter Gardens.**

JAPAN MAPLES in 20 choice sorts.

Japan Magnolias; Stellata, [Conspicua, Parviflora, etc.

Tree & Herbaceous Peonias, Iris Kämpferi in newest magnificent coloring.

Hardy Conifers, New sports of Retinosporas.

MINIATURE JAPAN CONIFERS.

Cycas Revoluta Stems greatly reduced.

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We furnish RELIABLE goods at corresponding rates.

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"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

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**DREER'S DOUBLE PETUNIAS**

Now Ready for Delivery, our Select Strain of Double Petunias, in good, strong, healthy stock plants, in 3-inch pots.

The strain of Petunias we offer is too well known to require much description— suffice it to say, that the varieties offered this season are fully equal to our former introductions. The advantage of securing stock early in the season will be readily appreciated, as a limited number of plants will produce a large number of cuttings.

We offer 15 named varieties, at \$1.50 per dozen; set of 15, for \$1.75; \$10.00 per hundred.

Seeds of Double Petunia, from the finest fringed and blotched varieties, saved on our own grounds, crop 1890. Per trade plt. of 50 seeds, \$1.00. Our New Trade List, offering all the good things of the season, will be ready early in January.

HENRY A. DREER, Philadelphia, Pa.

**ROSES**

Seeds, Plants, Shrubs, Vines,
Fruit & Ornamental Trees, Etc.

CATALOGUE FREE.

Over 150 pages illustrating and describing one of the largest and best assorted stocks of Seeds, Trees and Plants in the U. S. Best value for the money in our Tested Novelties and Special Low Priced Collections.

37 YEARS. 25 GREENHOUSES. 700 ACRES.

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COLEUS.**ROOTED CUTTINGS.**

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**PURE * NATURAL * SHEEP * MANURE.**

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THE AMERICAN FLORIST

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Cash with Order.**No Special Position Guaranteed.**Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
20 times, 20 per cent; 52 times, 31 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
reimburse it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WE ACKNOWLEDGE the receipt from Mr. Wm. Trelease, Director of the Missouri Botanical Garden, St. Louis, of a volume of 165 pages containing much information of interest regarding the work of the garden and matters connected therewith. It is handsomely illustrated with fine half-tone plates of views in the garden and a portrait of the late Henry Shaw. A short biographical sketch of Mr. Shaw is also given, and the act of the General Assembly of Missouri authorizing the creation of a trust for the management of the garden; the last will and testament of Henry Shaw, made in pursuance of this act; the deed of endowment of the School of Botany; the report of the inaugural exercises of the school, including the address of the Professor in charge; the report submitted to the Directors of Washington University on the work accomplished by the School of Botany during the first five years of its existence; the first annual report of the Director of the Garden, for the year 1889; the first annual flower sermon, preached in May, 1890, under the provisions of the will of Mr. Shaw, by the Bishop of Missouri; and the proceedings at the first annual banquet of the Trustees.

THE ARTICLE on color published in recent issues has excited much comment and we have received many letters regarding the issuing of a chart of colors as mentioned. One suggestion is that a number of those who issue catalogues club together to take a large quantity of the charts, to bind in their catalogues for the convenience of customers, and thus reduce the cost of the charts to the minimum by having them made in 100,000 lots. This plan is desirable not only from the fact that the cost of each chart would be thereby very considerably reduced, but it would at once disseminate the same among flower lovers all over the country. We should like to hear from catalogue men on this matter. If these charts could be supplied at a low cost would you be willing to take a sufficient number to bind one in each of your catalogues? If orders could be secured for not less than 100,000 copies the cost would be so reduced that we believe the financial obstacle would be overcome.

THE SCHEDULE of prizes offered by the Massachusetts Horticultural Society and programme of meetings for the year 1891 has been received from our Boston correspondent. The total amount appropriated for prizes and gratuities, to be awarded at the various exhibitions during the year, is \$6,800, of which \$2,050 is for plants, \$1,750 for flowers, \$1,700 for fruits, \$1,000 for vegetables, and \$300 for gardens, greenhouses, etc. Many very interesting subjects are listed in the programme of meetings for discussion.

These meetings are held each Saturday. They began January 3 and subjects are assigned for each Saturday up to March 28. On January 24 a paper on roses will be read by Mr. John N. May, of Summit, N. J., and on February 7 one on chrysanthemums by Mr. John Thorpe, Pearl River, N. Y. The programme can be had on application to Mr. Robert Manning, the secretary of the society, whose address is Horticultural Hall, Boston.

ONE OF the most valuable offshoots from the Society of American Florists is the Florists' Protective Association. Its object is to protect members from the possibility of being taken in by a certain class of dead-beats who have attached themselves to the trade and to place before the seller in a proper light the honorable business man. In a word to separate the wolves from the sheep, and certainly this can work to the disadvantage only of the wolves. The annual membership fee is only \$2, and this entitles members to all the information sent in to the officers. Certainly no one who sells to the trade can afford to stay out of the Association. The address of the secretary is given on the first page of each issue.

WE HAVE received a copy of the "Album et catalogue des plus belles variétés de chrysanthèmes" issued by R. Sautel, Salon, France. It contains ten colored plates showing flowers of ten varieties, one half natural size. The plates might be worse, but they seem hardly worthy the praise bestowed by the London *Gardeners*. We advise our English contemporary to secure a copy of "The Golden Flower" issued by L. Prang & Co., Boston, Mass. If it considers Sautel's plates good, it will probably be at a loss to properly express its appreciation of those which appear in "The Golden Flower."

JUDGING BY POINTS.—In support of his statement in a former article as to the unwisdom of attempting to judge plants and flowers by a scale of points, Mr. W. T. Bell sends us some clippings in which the assertion is made that the Pennsylvania Hort. Society has discarded the system after a trial, and that Mr. John Thorpe speaks of the scale with disrespect. It is possible of course that the disadvantages of the system may outweigh the advantages. Mr. Bell adds that a good judge can do good work judging by a scale, but that the system wastes too much precious time.

THE TREATISE upon "a new hollyhock disease" by E. A. Southworth which we recently noted as having appeared in the *Journal of Mycology*, issued by the Division of Pathology of the U. S. Department of Agriculture, has been printed in pamphlet form for distribution. It may be had on application to the chief of the Division of Vegetable Pathology, U. S. Department of Agriculture, Washington, D. C.

NEARLY EVERY subscriber when renewing a subscription for the FLORIST adds some complimentary comment. While these are all appreciated it is of course impracticable to print them all, but one recently received puts the matter in such an original way that we give it to our readers. "Enclosed find one dollar for fifty-two more bright and interesting evenings."

A COPY of the "Year book" issued by the Detroit *Journal*, has been received from Mr. W. H. Brearley, the proprietor of that paper. Considerable space is de-

voted to a description of the flower shows given at Detroit under the direction of the *Journal* in '89 and '90.

CONSIDERABLE space in the January issue of the *American Garden* is devoted to the begonia as previously announced. The frontispiece is a well executed colored lithograph showing blooms of four seedlings which originated with Siebrecht & Wadley.

AT A CONFERENCE of the Royal Hort. Society of England held last September, Mr. E. Lemoine, of Nancy, France, read an essay on "Les Glaieus Rustiques," and he has now sent us a printed copy of same. It is in the French language.

Catalogues Received.

J. M. McCullough's Son, Cincinnati, O., seeds; J. M. Thorburn & Co., New York, seeds; Wm. Mathews, Utica, N. Y. orchids; Ludwig Muller, Erlurt, Germany, horticultural books in German language; W. R. Shelnier, Avondale, Pa., carnations; Storrs & Harrison Co., Painesville, O., Plants, seeds and shrubs; L. L. May & Co., St. Paul, Minn., plants, bulbs and seeds; H. Cannell & Son, Swanley, Kent, England, seeds; same, chrysanthemums.

The World's Columbian Exposition.

During Director-General Davis' recent visit to New York City Mr. John Thorpe obtained an interview which is reported as follows:

Thorpe to Davis—"I am interested in the World's Fair horticulturally, and learning you were in New York I have taken the liberty of calling on you."

Davis to Thorpe—"I am delighted to meet you, and anxious to hear what you have to say about horticulture."

Thorpe to Davis—"The horticultural departments of all international exhibitions have hitherto been a prominent feature, but in my opinion no country has ever had the opportunity that we have to-day to make this department one of the most attractive features of the Columbian Exposition. It should be an exhibition not only worthy of America, but of the world."

Davis to Thorpe—"I acquiesce in what you say, Mr. Thorpe, you have the right idea, but it is very difficult indeed for me to appoint a man who has the same ideas as you and I have. I am always seeking information from men like you, who are not only practical but positive in what they say and do. This does not only apply to horticulture, but to all other departments of the World's Fair. When it comes to the appointment of a chief of the horticultural department I shall appoint a man who in my opinion is the best for the position. When I say the best, I mean a man who is conversant with all the branches of horticulture, if it is possible."

Thorpe to Davis—"Then you must avoid specialists, Mr. Davis. What is wanted is a man who is as familiar with flowers and decorative plants as every one ought to be with fruit, from the fact that decorative should be the feature of this department from start to finish."

Davis to Thorpe—"I am thankful to you for what you have said, and I shall be glad to receive any further suggestions from you, as it is my desire to make every department of the World's Fair a success."

JUNCTION CITY, KANS.—Wm Horlacher has succeeded Ziegler Sisters in the florist business here.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

C. H. FISK, WHOLESALE FLORIST & DEALER IN

FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washing'on Street, CHICAGO.
All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 to 3.
ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

GRESENZ & HARMS, (Successors to FRESE & GRESENZ)

Wholesale Dealers in
CUT FLOWERS,
And Florists' Supplies.

89 Washash Ave., CHICAGO.
Store Open: Nights 9 P. M. to 12; Sundays 2 P. M.

FIRST GRAND BALL

— GIVEN BY THE —
ROSE HILL FLORISTS' SOCIETY,
(Siebrecht & Wadley's)

TO BE HELD AT THE
Town Hall, New Rochelle, Thursday, Feb'y 9th, 1891.
Tickets, 50 cts. admitting Gent and Ladies. To be
had at 405 Fifth Avenue, New York City.
Brother florists are cordially invited.

PLANTS AND BULBS.

CANNAS, fine bulbs. Per 50 Per 100
PRIMULAS, nice plants. 5.00 50.00
SMILAX, good. 2.50 4.00
FANNIES, from cold frame. 1.25 2.00

JOS. H. CUNNINGHAM, Manager,
DELAWARE, OHIO.

Special Offer.

Verbenas, striped cuttings, per 1000 87.00 . . . Per 100
Anthriscus coronaria 8 p. 2 1/2 in. pots. 1.00
Ageratum, white and blue, 2 1/2 in. p. 8. 4.00
Abutilon Edgemoor 2 1/2 in. pots. 4.01
Crassulium anatum 2 1/2 in. pots. 4.00
Mesembryanthemum cordata var. 2 1/2 in. 4.00
Rose geraniums, true 2 1/2 in. pots. 4.00
Othonna crassifolia 2 1/2 in. pots. 4.00

A. GIDDINGS, Danville, Ill.

PURE, FRESH CALIFORNIA SEEDS.

In large or small quantities.
Smilax, Cosmos, Mina Lobata Stocks, Geraniums
Large Flowering Dwarf French Cannas (napped),
Apple Geranium (true), etc. etc. Send for trade list
and prices. Per 100 Per 1000
Canna Ehemanni, strong roots. \$3.00 \$25.00
Noutoni, strong roots. 2.50 20.00
French Canna Emile LeClair, strong. 5.00 40.00

MRS. THEODOSIA B. SHEPHERD, Ventura, Cal.

FOR SALE, OR EXCHANGE FOR ROSES.

Crevelles robusta, 6 to 12 inch 8.50
Tulpa pyramidalis, 5 to 10 inch 5.00
compacta aurea, 5 to 8 inch 6.00
Chamissoe humilis, 2 year seed 5.00
Bracconia indica, 1 year seed 6.00

ANTON KRAVCHYK,
720 Flower Street, LOS ANGELES, CAL.

HAIL
Lock the door BEFORE the horse
is stolen. Do it **NOW!**
JOHN G. ESLER, Sec'y F. N. A.,
Saddle River, N. J.

Wholesale Markets.

Cut Flowers.

Roses, Bon Silene	BOSTON Jan. 12.	\$2.00 @ 37.00
" Niphetos, Goutiers		3.00 @ 5.00
" Paris, Sunsets		5.00 @ 12.00
" Mermets, Brides		8.00 @ 12.00
" Woottons, Hoaks		6.00 @ 5.00
" La France		12.00 @ 15.00

Valley		6.00
Narcissus, paper white		4.00
Narcissus, Trumpet		4.00
Hyacinths		4.00
Carnations, long	1.00 @ 2.00	
Violets	1.25 @ 1.00	
Callas	10.00 @ 12.00	
Pansies	1.00 @ 1.50	
Adiantums	1.50 @ 1.50	
Asparagus plumosus		50.00
Freesia		3.00 @ 3.00

Roses, Beuettes	PHILADELPHIA Jan. 12.	25.00 @ 30.00
" Brunners		25.00 @ 30.00
" La France, Albany		10.00 @ 12.00
" Laines, Laites		35.00 @ 36.00
" Mermets, Brides		8.00 @ 12.00
" Goutiers		10.00 @ 12.00
" Beuettes		8.00 @ 10.00
" Paris, Niphetos		4.00 @ 6.00
" Woottons		8.00
Valley		1.50 @ 2.00
Carnations, long		1.00 @ 1.25
Smilax		15.00 @ 20.00
Adiantums		1.00

Roses, Paris	NEW YORK Jan. 12.	8.00 @ 8.00
" Niphetos, Nova		10.00 @ 4.00
" Mermets, Brides		6.00 @ 8.00
" Wadley's, Cains		6.00 @ 8.00
" La France, Albany		10.00 @ 15.00
" Bon Silene		3.00 @ 4.00
" Papis		4.00 @ 5.00
" Hoaks		5.00 @ 6.00
" Am Beauty		25.00 @ 75.00
" Hybrids		25.00 @ 50.00
Lily Valley		4.00 @ 4.00
Roman hyacinths		2.00 @ 3.00
Harrill		2.00 @ 4.00
Jonquilla		3.00 @ 3.00
Carnations, long		10.00 @ 15.00
Hartels		1.00 @ 1.00
Bouvardia, heiotrope		1.00 @ 1.00
Violets		1.00 @ 1.50
Lilac, per bunch		2.00

Roses, Bon Silene	CHICAGO Jan 14	2.00 @ 3.00
" Paris, Niphetos		4.00 @ 5.00
" Mermets, Brides		5.00 @ 6.00
" Beuettes		25.00 @ 30.00
" Goutiers		4.00
" Beuettes, Woottons		6.00 @ 8.00
" La France		10.00 @ 15.00
Carnations, short		1.00 @ 2.00
Carnations, long		1.75 @ 2.00
Carnations, long, fancy		2.00 @ 2.00
Valley		4.00 @ 5.00
Tulips		3.00 @ 6.00
Adiantum hyacinth, narcissus		4.00 @ 5.00
Smilax		10.00 @ 15.00
Adiantums		12.00 @ 15.00
Violets		1.00 @ 1.25
Callas		10.00 @ 12.50

WM. J. STEWART, Cut Flowers & Florists' Supplies

— WHOLESALE. —
67 Bromfield Street, BOSTON, MASS.

CUT FLOWERS.

The choicest Cut Flowers, of our own growing,
at lowest market rates, shipped C. O. D. Tel.
F. Code when ordering by telegraph. Telephone
connections. For prices, etc., address

J. L. DILLON, BLOOMSBURG, PA.

THE
PATENT BINDER
Price postpaid
75 CENTS.
Address
American Florist Co.
CHICAGO.

Showing the
appearance of
the binder when
quite full of

THE
American Florist
Every subscriber
should have one.

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DIRECTORY.

Every Florist, Nurseryman and
Seedsmen should have one.
AMERICAN FLORIST CO., Chicago.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,
NEW YORK.

LILY OF THE VALLEY,
And the Choicest ROSES for the
fall and winter season.

W. S. ALLEN, Wholesale Dealer in Cut Flowers

36 EAST 23rd STREET, NEW YORK.
[ESTABLISHED 1877.]
Price List sent upon application.

HAMMOND & HUNTER, WHOLESALE DEALERS IN CUT FLOWERS,

51 West 30th St., NEW YORK.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
No. 32 W. 30TH ST., NEW YORK.
Orders to be shipped will receive prompt attention.

JOHN YOUNG, WHOLESALE FLORIST

56 WEST 30TH STREET,
NEW YORK.

A. S. BURNS. J. L. KAYNOR.
BURNS & RAYNOR,
WHOLESALE FLORISTS,

11 West 28th St.,
NEW YORK.

LaRoche & Stahl, Florists and Commission Merchants

— OF —
CUT FLOWERS,
1237 Chestnut Street, - - PHILADELPHIA.

Consignments Solicited. Special attention paid to
shipping. Mention AMERICAN FLORIST.

J. M. McCULLOUGH'S SONS, Wholesale Commission Dealers in CUT FLOWERS

134 & 136 Walnut Street, CINCINNATI, O.
SPECIALTIES:
ROSES, CARNATIONS AND ORCHIDS.

ELLISON & KUERN, WHOLESALE FLORISTS,

1122 FINE STREET,
ST. LOUIS, MO.
Consignments of Carnations
WANTED.
THE WISCONSIN FLOWER EXCHANGE,
133 Mason Street, MILWAUKEE, WIS.

On Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FORTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

Seed Warranty.

This may be a threadbare subject, but it is one of which no very satisfactory conclusion either to dealer or purchaser has ever been arrived at. The season of 1890 has kept this matter more pointedly in mind than any other in my experience.

I am more than ever convinced that the most careful, honest seedsmen in the whole trade ought not in justice to himself give any warranty whatsoever, either regarding the germinating powers or other qualities of the seed which he offers for sale. Here are some cases in point: Of a certain flower seed sold by me the whole stock for 1889 trade was grown and harvested in one place and at one and the same time. I received over a dozen complaints concerning this seed. In one instance the grower was a careful florist of my acquaintance who failed to induce over 10 per cent of the seed to germinate. On the other hand I have many times this number of voluntary testimonials not only of the germinating qualities, but of the general good results from this same seed stock. Remember these conflicting reports are all of one season's experience, the seed all being alike and of the previous year's growth. Had I ought even from a moral standpoint to be responsible for the failures even to the extent of refunding the amount paid or replacing the seed?

Every seedsmen it is safe to say has had more or less trouble with onion seed. I can cite four cases among my 1890 local customers, and can prove that the seed in each case was all from one stock and of 1889 growth, where results under as near the same conditions as is possible to be found, were of a conflicting nature. These complaints, by the way, were the only ones from this seed and were from near by points, while the stock was scattered all over the Union.

One of the growers of the quartette referred to above, reported fully one half "scullions" as a product of this seed, another in a town next adjoining had no fault to find and was so well pleased with the stock that he ordered his next season's supply six months in advance.

From another who had sown very thinly I have a voluntary statement that the seed must have grown "nearly 100 per cent," as there were no perceptible vacancies. A neighbor of his who sowed on the same date was very indignant that "we should have given him different seed," as he asserted we did, as less than half of his germinated.

Without going into the "whys and wherefores" as to the probable causes of these conflicting results I would like to ask any candid minded person whether I should be responsible to the extent of one cent for the failures referred to. The seed was fresh and good. It was precisely alike in each case. That the best of results were obtained from it in the great majority of cases can be proven.

No seedsmen can do more than to sell good, fresh seed, true to name, and I maintain that he should not be and can not be in justice to himself, responsible in any way for the result.

The seed business is peculiar to itself. It is nearer to nature than any other

trade, and to speak plainly, the only protection that purchasers can rightfully have is in dealing with concerns who have a "clean" reputation. There are plenty of such. Those who charge a fair price for their goods and are willing so far as genuine mistakes are concerned to make them right.

The average planter, large and small, would like to have his seedsmen insure a full crop for him. The speculator who borrows money would like to have his banker guarantee him profitable returns on the investment he proposes to make. Are there any money dealers who will do this? M. B. FAXON.

Boston, Jan. 5, 1891.

[Had Mr. F. given us his own trial test records in the cases named we should have clearer views on them. If the seedsmen knows from trials that his seeds do germinate under fair conditions he probably should not be required to give any warrant unless he sells his seed at very fancy prices. The greatest good to the greatest number would appear to be to sell good seed at as near the actual cost of production as possible. Now, if to secure himself against the failure by the careless or unwise planter, the seedsmen must warrant his seeds, then to cover possible contingencies and secure himself against them he must greatly advance his prices. Thus 90 customers who knew how to care for seeds would pay an added burden to insure the 10 careless ones, which is manifestly unfair; the same principle would apply to bulbs and dormant plants.—Ed.]

THE Higginum Manufacturing Corporation at 189 Water street, New York, have disposed of their seed department to the George L. Squier Manufacturing Company, who will remain in the same location and propose to make their house "the most extensive and perfect emporium of agricultural implements and plantation machinery on this continent."

KANSAS CITY.—The January 1 seed review claims 20 per cent increase in the past year's trade and growth of trade in California, Washington, Montana and Oregon.

J. H. GREGORY & SON is the new title of the famous Marblehead seed establishment.

G. J. MOFFATT,
Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.

Samples and prices on application. When writing for prices, please state sizes and quantity wanted.

TUBEROSES AND GLADIOLI BULBS.
FINE STOCK. TRUE TO NAME. SAMPLES AND BOTTOM PRICES MAILED ON APPLICATION. TRY US.
NEW CROP FLOWER SEEDS.
Sphagnum Moss, extra clean for Florists.
W. W. BARNARD & CO., Successors to
6 & 8 North Clark Street, CHICAGO. HIRMAN SIBLEY & CO.

1891.



1891.

IF YOU WOULD HAVE

CHOICE VEGETABLES

And Beautiful Flowers. You must plant Good Seeds. Do not go to the village store But write to-day for

Burpee's Farm Annual for 1891

Which plainly tells How to get the **Best Seeds**, Without any Extra Cost, Direct from the Growers. It describes **Rare Novelties** Which can not be had elsewhere.

W. ATLEE BURPEE & CO.
PHILADELPHIA, PA.

Mention American Florist

USE FERRY'S SEEDS

BECAUSE THEY ARE **THE BEST.**

D. M. FERRY & CO'S

Illustrated, Descriptive and Priced

SEED ANNUAL

For 1891 will be mailed **FREE**

to all applicants, and to last season's

customers. It is better than ever.

Every person using *Garden*, *Flower* or *Field* Seeds,

should send for it. Address

D. M. FERRY & CO.

DETROIT, MICH.

Largest Seedsmen in the world



TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and Request the best at the lowest prices. LEAD LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

Mention American Florist.

J. A. DE VEER,
18 Burling Slip, - NEW YORK,
Importer and Dealer in
BULBS, SEEDS, PLANTS
and Florists' Supplies.

Agent for Foreign Houses. Catalogues free to the trade.

SPIRÆA JAPONICA

Surplus Stock of 40,000 extra strong clumps for forcing, at \$10.00 per 1000 and packing free. Cash with order, to

SEGER & CO., Bulb Growers,

LISSE, near Haarlem, HOLLAND, EUROPE.

No less than 500 will be sent at this rate.

ORIGINAL AND LARGEST GROWERS OF

LILIUM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 140 in length, of a crop of Liliium Harrisii in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fills in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in. For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 20,000 bulbs for his own use. We hear it said occasionally that Liliium Harrisii flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, and the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as HEADQUARTERS FOR THE BERMUDA EASTER LILY: supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

→ HALF A MILLION BULBS. ←

Be sure you get the genuine Liliium Harrisii. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant L. Longiflorum in Bermuda, planting it with Harrisii to increase their stock rapidly when Harrisii was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Philadelphia.

Business seems to be almost at a standstill, the past week it has been very dull all along the line. The bright weather has brought on the buds far in excess of any demand and the consequence is prices are away down. Perles, Gontiers, Niphetos, \$4 to 6, Mermets, La France, Brides and Albany, 10 to 12, Beauties 35 to 50, Magnas and Luings 50 cents for fine flowers, carnations 2 cents and lower. Better things are promised for next week and it is hoped that they will materialize.

One of the large growers thought that this Christmas would be like all of those gone before and his price of \$25 a hundred for Perles, Mermets and La France was demanded regardless of the state of the market or the protests of the dealers who were accustomed to depend on him for their supply. The elevation of prices at Christmas has received a death blow this season and we never expect to have another attack except in a very mild form. Six dollars is still asked for valley. We think this is a very high price as it cannot be sold for over a dollar a dozen and there is no profit in a margin of 25 cents as that will just about pay for the waste.

Small standard azaleas are now coming in and are a welcome addition to the stock of blooming plants. The poinsettias are about done and it is difficult to get enough blooming plants for the demand.

The bowling match for the turkeys was a great success some fifty florists taking part in it, no very large scores were made, but as a number of members rolled their first games the scores were very fair. George Anderson won the turkey in the 150 class with a score of 183, A. B. Cartledge won in the class over 125 and J. Lamb won in the novices class, each receiving a turkey. A pool table has been put in and it proves to be quite an attraction. N.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. SNEAD,
AVONDALE, PA.

Rooted Cuttings of Carnations

of all the Standard Varieties ready Dec. 1st.

Having added another 100 foot house to our Carnation Department, hope to be able to furnish any quantity desired, on short notice. Orders for future delivery at 10 per cent off from catalogue price.

JOS. RENARD, Unionville, Chester Co., Pa.

Rooted Carnation Cuttings.

BEST VARIETIES FOR THE MARKET. LOWEST PRICE. STOCK HEALTHY.

Address **OTTO HANSEN,**
GALEWOOD, Mont Clare P. O., ILL.

MY NEW SPECIAL OFFER OF EXTRA CHOICE FLOWER SEEDS

is now published and may be had on application.

FRED. ROEMER,
SEED GROWER
Quedlinburg, Germany.

CUT SMILAX.

I make a specialty of Smilax, and am prepared to fill orders promptly. Price 30 cents per string 4th May 1st. **JOSEPH E. BONNALL,**
Telephone No. 15 308 Garfield Ave., Salem, Ohio.

ROOTED CUTTINGS.

—Send for Lists. The prices and quality are sure to please.—

CARNATIONS—All the leading sorts. Eight 100-foot houses.

COLEUS—An immense stock. Twenty-four varieties.

GERANIUMS—All sold.

CANNAS—French and others, and numerous items of interest to florists. A new feature in Smilax culture.

CARNATION NOVELTIES.

Lizzie McGowan, Louise Porsch, Golden Gate, J. R. Freeman, Wm. F. Dreer, Hector, Edelweiss, Angelus, Dorothy, Nellie Bly, Snow Bird, White Wings, May Flower, Orange Blossom, Beauty of Oxford, Emily Louise Taplin, and others are described in my list. **HINZE'S WHITE** at a special price in quantity.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

LIZZIE MCGOWAN,

* * THE QUEEN OF WHITE CARNATIONS! * *

Will be ready for distribution February 10th, '91. Price, \$12 per 100; \$100 per 1000, for strong well rooted plants from cutting bench. Plants well established in small pots, \$3 per dozen.

Send for price and descriptive list of this and other sorts.

ADDRESS

H. E. CHITTY, PATERSON, N. J.

**WINTER-FLOWERING CARNATIONS
FOUR GRAND NEW VARIETIES.**

You cannot afford to pass by without trying our seedlings of merit for 1891; there is more profit in growing fine, fancy flowers every time; and in **GOLDEN GATE** (yellow), **WM. F. DREER** (rose pink), **J. R. FREEMAN** (cardinal crimson), and **CONSTANCY** (scarlet), you have a good range of color in the most perfectly shaped flowers and productive of bloom.

Prices, Golden Gate, \$1.50 per dozen; \$50 per 100. Dreer, Freeman and Constancy, \$2.00 per dozen; \$15 per 100. On an order at one time for 100 plants of each variety or 400 plants in all, the price would be \$50; or half the amount, \$25. Sample florets of the four varieties will be mailed on receipt of 25 cts.

CHAS. T. STARR, Avondale, Chester Co. Pa.

**LIZZIE MCGOWAN THE NEW WHITE.**

ROOTED CUTTINGS, \$12 00 per 100, or \$100 per 1000.

LOUISE PORSCH FINE YELLOW.

Better grower than Buttercup; \$7 per 100; \$50 per 1000.

Both ready for delivery Feb. 10, 1891. 500 at 100 rate, 50 at 100 rate.

ADDRESS

JOHN MCGOWAN,

363 Main Street, ORANGE, N. J.

ROOTED CUTTINGS OF CARNATIONS.

Standard and Fancy varieties, ready January 1st. Stock healthy, cuttings rooted cool. A large stock of NEW WHITE CARNATION L. L. Lamborn. A liberal discount on large lots for later delivery. Send for wholesale price list.

Wm. Swayne, P. O. Box 226, Kennett Square, Pa.

CARNATIONS!

LIZZIE MCGOWAN, FRED. CREIGHTON, GOLDEN GATE, FAIR ROSAMOND, J. R. FREEMAN, HECTOR, MRS. FISHER, WM. F. DREER, CHASTITY, SILVER SPRAY, TIDAL WAVE, GRACE WILDER, L. L. LAMBORN, CONSTANCY, EDELWEISS, EMILY LOUISE TAPLIN, ANGELUS, LOUISE PORSCH, NELLIE BLY, DOROTHY, DAY BREAK, and sixty other leading varieties. 50,000 now in cutting bench. Send for price list and order early.

GEO. HANCOCK, Grand Haven, Michigan.

ROOTED COLEUS.

SEND FOR —
—PRICE LIST.

S. B. FIELD, Roselle, N. J.

NEW CHRYSANTHEMUMS.

MILLER'S "WORLD'S FAIR SET."

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The Christmas and New Year's trade this season was very satisfactory. Good prices ruled and the supply of everything except roses was up to the demand. There was rather an overstock of Roman hyacinths; the demand for these seems to be on the decline. The demand for plants in bloom seems to improve each year, the choice being in favor of colored flowers; quite a number of azaleas and begonias were sold at good prices.

Wiltshire Brothers made a good display and did a good trade in their new store on Sherbrooke street.

W. T. Davidson, of W. B. Davidson & Son, mourns the loss of his wife, who died on the 29th of November. The deceased lady was highly esteemed by a large circle of friends. Brother Davidson has the sympathy of his brother florists in his great loss. MACK.

Los Angeles, Cal.

C. H. Hovey at "The Raymond" has added five new glass houses 75x11 each to their already large establishments. He is giving roses a trial under glass. No one so far ever succeeded here.

Roses have never been so plentiful as they have this winter owing to the warm weather and absence of frosts.

There are now in Los Angeles six exclusive flower stores, and as many more doing florist's work outside.

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Why don't we have more California notes in the FLORIST? I presume we are making more progress in proportion to our population than any other state in the union and we certainly have an abundance of well informed men fully capable of writing well on trade subjects.

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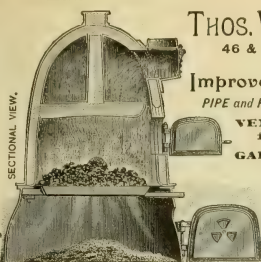
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THE AMERICAN FLORIST



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Vol. VI.

CHICAGO AND NEW YORK, JANUARY 22, 1891.

With Supplement. No. 138.

THE AMERICAN FLORIST

Copyright, 1891, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY.

54 La Salle Street; CHICAGO.

Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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American Chrysanthemum Society.

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WITH this issue we present to each reader a fine colored plate of the new rose Waban.

A VARIEGATED La France is the latest. Two blooms are sent us by Brown & Canfield, Springfield, Ill. The flowers are identical with La France in form and fragrance, but the variegation is very marked.

IN ALL probability the appointment of Chief of the Horticultural Department of the World's Columbian Exposition will be made very shortly. Director-General Davis has announced his intention of submitting to the Commission the name of James D. Reynolds for the position.

Meeting of the Executive Committee of the S. A. F.

The Executive Committee of the Society of American Florists met in annual session at the Queen's Hotel, Toronto, Ont., on Tuesday and Wednesday, January 13 and 14.

There were present, President Norton, Vice-President Chambers, Treasurer Hunt, Secretary Stewart, and Messrs. Smith, Burton, Long, Welch, Temple, Dean and Falconer; also Messrs. May, Hill and Vaughan, who were elected as substitutes to represent Messrs. Jordan, Huntsman and Buckbee, who were absent. A telegram was received from Mr. Buckbee announcing the dangerous illness of his father, and expressing regrets at his inability to be present. Letters of regret were also received from the other absent members.

A number of prominent Toronto florists attended the session, and there were also present Mr. Scott, from Buffalo, and several gentlemen from Hamilton. On a table in the committee room were a number of large vases containing twenty varieties of seedling carnations from Mr. E. G. Hill, among which were some very handsome varieties; also a vase of roses grown by Mr. J. H. Dunlop, including American Beauty, Bride, Perle, and other popular varieties, all of them being unusually fine specimens and pronounced by the rose growers present to be equal to the best they had ever seen.

The deliberations of the committee were characterized by remarkable unanimity, and the large amount of business brought before it for consideration was dispatched in prompt and systematic order. The secretary's report indicated a gratifying increase in the number of paying members, and the report of the treasurer showed the amount of funds now on hand to be more than double what it was one year ago.

Mr. May made a report for the sub-committee which was appointed a year ago to arrange for the incorporation of the society in whichever State the most favorable charter could be procured. After discussion it was decided that the best plan would be to apply for a National charter, and in furtherance of this object Mr. W. R. Smith, of Washington, was added to the committee with instructions to report at the August meeting.

A communication from John Fottler, Jr., Secretary of the American Seed Trade Association, was read, and resulted in the adoption of the following resolution:

Resolved, That we concur in the desire expressed by the resolution of the American Seed Trade Association for united action in the matter of exaggeration in catalogue illustrations, and recommend that consultation be had by our respective committees on that subject.

A communication was received from Prof. L. R. Taft, Agricultural College, Michigan, soliciting the co-operation of the Society of American Florists with the Michigan Horticultural Society and kindred institutions in an effort to obtain for floriculture adequate recognition and proper classification in the arrangement of plans for the horticultural department of the World's Fair at Chicago. After a thorough discussion a sub-committee was appointed to urge upon the Director-General the importance of this matter, and to express the indorsement by this society of Mr. J. D. Reynolds as the best man to be placed at the head of the Department of Horticulture.

The committee was constituted as follows: Messrs. J. C. Vaughan, Robert Craig, J. M. Jordan, W. A. Manda, W. R. Smith, W. Falconer, H. A. Siebrecht, John Burton, John N. May and E. G. Hill.

A permanent committee was also appointed to represent this society in arranging for an International Congress of Horticulturists, to be held in Chicago at the time of the World's Fair, as follows: E. G. Hill, W. F. Dreer, W. A. Manda, Jas. Dean, J. T. Temple, W. R. Smith, E. Asmus, H. H. Berger and W. H. Chadwick.

The "nomenclature" matter was then called up and the rule excluding from membership on that committee gentlemen engaged in the "catalogue trade" was rescinded and the committee was re-constructed as follows: Wm. Falconer, Glen Cove, N. Y., Chairman; J. D. Reynolds, Ed Lonsdale, R. Craig, Ernst Asmus, J. N. May, I. Forstermann, John Thorpe, E. G. Hill, Robert George, W. R. Smith, C. D. Ball, A. B. Scott. The committee was authorized to expend a sum not exceeding \$100 during the coming year.

A number of communications were read in reference to the advisability of making awards to displays of heating apparatus at the annual trade exhibition of the society, and after a lengthy discussion it was voted that in future all committees on heating apparatus be instructed to simply draw attention to apparent points of superiority in such exhibits, and that no certificates of merit or other premiums be awarded in this department.

It was further decided in relation to the trade exhibition that in addition to the enforcement of the rule adopted at the last convention directing that the exhibition be closed during the time the convention is in session, that no exhibits of plants or other goods be allowed in the convention hall. Messrs. Long, Welch, Burton, Vaughan and Stewart were appointed a committee to arrange a set of rules governing the arrangement of trade exhibits, space allotments, also rules for the guidance of committees on awards and other matters connected therewith.

and to make report on same at the next meeting of the board.

It was decided that the usual charge of 25 cents per square foot for floor and wall space be charged to all exhibitors; also that all proceeds from this source be left in the hands of the local club, who are also to pay all expenses connected with the same.

Arrangements have been made with the proper authorities that all goods from the United States intended for exhibition purposes will be admitted without payment of duty. The Gardeners and Florists' Club, of Toronto, having announced its intention to arrange for a horticultural exhibition to be held at the time of the S. A. F. meeting, next August, it was voted that the sum of \$100 be appropriated for premiums to be offered in the name of the national society at that time, for such class of exhibits as may be designated by the local club.

The matter of providing some means for the easy recognition of members at the annual meetings, together with the instructions voted by the S. A. F. at Buffalo indorsing the "numbered badge" plan, was taken up, and after a thorough discussion, it was unanimously voted that the thanks of the society are due to the committee who had this matter in charge for their earnest efforts to provide a suitable plan, but that the executive committee finds that the plan in its present shape is impracticable and inadvisable.

A committee was appointed to present to the society at its next meeting some definite plan for the establishment of a life membership.

After a tour of inspection of the various auditoriums and exhibition halls in the city, the Horticultural Pavilion, corner of Girard, Sherbourne and Carleton streets, Toronto, was selected as the place of the next meeting, and the Queen's Hotel as the headquarters of the S. A. F. during the time of the meeting.

The following list of subjects for essays was adopted:

- Review of new plants.
- Future of horticulture in America.
- Credits.
- Store trade.
- Florist business in the South.
- Sub-tropical bedding.
- Winter flowering plants suitable for decorations.
- Begonias.
- Aquatic plants.

A large number of subjects for the question box were handed in and more are expected.

Socially the visit of the Executive Committee was an exceedingly pleasant one. The Toronto brethren were most kind and attentive throughout. In the afternoon the visitors were given a sleigh-ride, during which some of the leading greenhouses were visited and the many attractions of the city, not the least of which was the famous "Curling Rink," were inspected.

In the evening a banquet was tendered to the Executive Committee by the Gardeners and Florists' Club of Toronto at the Queen's Hotel. Vice-President Chambers presided, and there were present about one hundred gentlemen, including a number of the heads of departments and members of the Board of Aldermen of the city. The speeches were of a high order, the floral decorations of the table were simply superb, and the whole affair most spontaneously carried out.

WM. J. STEWART, Secretary.



Carnation Lamborn; Is It Profitable?

In your issue of the 8th inst. there is a communication from Mr. H. E. Chitty entitled "Carnation Lamborn." I have no desire or wish to get into a controversy with Mr. Chitty, yet I do not think he will object to a fair criticism of his article, or a comparison of his results with "Lamborn" with other varieties grown by other florists. It has been truly said that "fair and just criticism helps us to greater efforts."

He says "that from 3,500 plants of Lamborn he has gathered from October 1 to December 26, 10,000 flowers, which have netted him \$50 per thousand." To the ordinary grower about Boston this statement is remarkable in two particulars. First, the large price obtained for the flowers, which makes me feel as if either my flowers were very inferior or the Boston market a very poor one. Second, that it would be unprofitable to grow a variety which for three months had not averaged one flower per plant per month.

My observation is that where "Lamborn" does well, it gives good flowers and better results, as to numbers, than Mr. Chitty shows.

I have only one variety of which I have kept an accurate record, there being 700 plants. The cuttings were struck from February 10 to April 15, 1890, and planted out in field the last of May, lifted from open ground the middle of September. When lifted the plants were very well budded, but nearly all the buds died from the effects of transplanting. I cut the first flower October 13, and to November 30 cut 3,319 flowers; from December 1 to 31 I cut 3,059 flowers, making 6,376 flowers in two months and eighteen days, or an average of nine flowers to each plant. From January 1 to January 11 I cut 1,009 flowers, and from indications I expect better results for the next four months. I have also taken off 12,200 cuttings since October 15.

While the flowers were very fine, and found a ready sale at wholesale, they have barely averaged 2½ cents apiece, thereby netting 22½ cents per plant to January 1. If they had produced flowers in the same number as Mr. Chitty's Lamborns they would have netted 7½ cents per plant at the price I obtained, making a difference in favor of my plants of 15 cents each, or \$105 for the 700 plants, and \$525 for 3,500 plants at my prices and \$1,050 at Mr. Chitty's prices, no small item to one who grows flowers to keep the "wolf from the door."

I do not consider it a fair test of the merits of any variety to judge it by the results obtained the first three months under glass, but by the entire season, from October 1 to the following July.

R. T. LOMBARD.

Wayland, Mass., Jan. 12, 1890.

In the AM. FLORIST of Jan. 8, 1891, H. E. Chitty, of Paterson, N. J., gave us an idea of the profits he makes on the Lamborn carnation. In his article he states that from October 1 to December 26 he has gathered 10,000 flowers from 3,500 plants, and, best of all, he states that

after charging the 10,000 flowers with every item of expense that it is possible to think of they give him a net profit of \$50 per 1,000, which is very encouraging, indeed, and I can only say here, it is to be regretted that we are not all so located as to be able to dispose of our cut flowers at retail prices. Mr. Chitty says further, that no person to look at the beds would suppose for one moment that any considerable number of flowers had ever been gathered, and that the mass of buds in the several stages of development remain if anything more numerous than a month or two ago, which also is very encouraging and especially so when he can sell them at prices ranging from 50 cents per dozen to 10 cents apiece.

But in my estimation there is nothing extraordinary about cutting 10,000 flowers from 3,500 plants in three months; it is not even an average of three flowers to the plant, and in my opinion any carnation plant that could not bring three flowers in that length of time and look as good as ever would not be worth handling, especially so where many of the flowers can be used short-stemmed and but few buds need be sacrificed in order to pick long stems.

Mr. Chitty also states that he sent 1,500 blooms to New York, for which the consignees allowed him \$2 per hundred, less the necessary expenses. Now those are exactly the ones that the most of us would like to hear from, and since he has been kind enough to tell us what profits he has made by using his flowers in his own store, I, for one, would like to ask him to be so kind as to tell us also, through the columns of the FLORIST, what his profits would be if he were obliged to sell all his flowers through a commission dealer at \$2 per hundred for long stems, and out of that to pay 15% commission and also express charges. It would also be interesting to know how long it would take him to accumulate half the actual cost of his new iron greenhouse at that rate; and also how it would affect his bank account. I can dispose of a few flowers now and then at retail prices myself, and I have, long ago, come to the conclusion that it would be an easy matter to make any of the leading varieties of carnations, or in fact almost anything else, pay large profits under those conditions, but to make large profits at the present wholesale prices is a horse of another color, and any light that Mr. Chitty, or any one else, can throw on that side of the question will doubtless be welcomed by many readers of the FLORIST.

M. SCHMIDT, JR.

Fanwood, N. J., Jan. 14.

In Mr. Chitty's article in the FLORIST of January 8 he reports the sale of 10,000 flowers from 3,500 Lamborn carnation plants since October 1. He does not say just at what date this statement is made, but I suppose we may consider it to come up to about January 1, which would make less than one flower per month from each plant. Is this a large yield?

I am not accustomed to growing carnations, but would have expected much more, and it does not look very encouraging for the grower who expects to take his chance in the wholesale market.

Hammonton, N. J. WM. F. BASSETT.

In the FLORIST for January 8 I see that Mr. Chitty gives his reasons why he planted Lamborn in place of Himze's White carnations. I think his reasons are good, but must say I think his pickings quite small. I have about 1,100



HOUSE OF MIGNONETTE AT MR. JOHN N. MAY'S.

Silver Spray carnations, and from this 1,100 I have shipped (so my books say) 8,575 good carnations, short and long, and but very few short ones too. And more than that all my carnation plants are looking fine and full of buds. Do you not think this is a very good showing for the first year in this business.

Akron, O. J. C. HOAG.

New Carnations.

As the saying goes, "the woods are full of them," and all are highly recommended by their introducers, and all "superior to any raised up to this time." How is the general grower to know this, as very few of them have been exhibited and received a certificate of merit from those competent to judge, with the exception of Lizzie McGowan, which has been shown in many places and highly praised. Having seen it growing at John McGowan's, the raiser of it, also at H. E. Chitty's, I would say if others can grow it as well, I think no one will regret investing in it.

Mr. Chitty thinks very much of Lamborn, and according to his experience it has done more than well, but I think this has not been the experience with many others, or at least many others have not had so favorable an experience. I was expecting to purchase some plants of it the first year it came out, but neglected to do so. When the next winter came around I saw it growing at two places, and from what I saw of it I did not want it. The blossoms were of good size and white, but they had such a crinkled, wilted appearance that it spoiled it for me. This may

have been due to the manner of growing it, unsuitable soil or temperature, or both. Still, under the same conditions other varieties were doing nicely.

Hinze's White, Mr. Chitty has thrown out, it not giving him satisfaction as it is too much of a cropper. Still I saw a bed of it at Bird's, of Newark, which to my mind was very much finer than Lamborn at Chitty's, and I saw them both on the same day. But these Hinze's White were much the finest I ever saw. This shows that one grower can do much better with some varieties than other equally good growers. I think Hinze's White, to do well, needs plenty of light and a night temperature of 55° to 60° in order to bring out the size and a pure white color. I often see them growing in a cool house, and under that condition the blossoms are much smaller, and the color quite on the buff. The finest I ever grew was with a night temperature of from 55° to 60°. This gave me extra fine large white flowers.

In looking over the AMERICAN FLORIST we find a large number of new ones advertised. I hope they will all prove good and desirable varieties. It will take at least one year to tell. I sometimes think pet plants of our own raising are like pet trotting horses. We think they have all the strong points for speed and must win sure. We start them in the race with all the confidence in the world that they will be the winner, but owing to the track being composed of the wrong kind of soil, or the temperature too high or too low, for our pet, the old timer goes right along and comes in ahead of all the new-comers,

some of which drop out almost before they get started. Some last until they reach the home-stretch, and that is the last seen of them. I hope our new carnations will do better.

Will some one who has had experience tell us through the FLORIST how they have succeeded with Mrs. Fisher? Has it come up to their expectations? Are the flowers good and is it a free bloomer?

Beauty of Oxford is recommended as being better than Grace Wilder. Who knows anything about it?

Hudson, N. Y.

E. HOLLEY.

House of Mignonette.

We present herewith a view of a house of mignonette as seen at the establishment of Mr. John N. May, Summit, N. J. The house is eleven feet wide with a two foot walk. As shown, the plants are growing in solid beds, raised above the level of the walk about eighteen inches.

In our issue for September 15, 1889, (No. 99) on page 60, we printed an article by Mr. May giving in detail his method of growing the mignonette.

Woolly Aphis and Scale.

In response to a query as to the best remedy for woolly aphids on camellias and scale on ferns, Mr. W. H. Taplin has, at our request, prepared the following:

"Probably the best remedy to apply to the camellias would be a solution of Fir Tree Oil, or the kerosene emulsion, either being good for this purpose.

"These remedies should, however, be cautiously applied if there is much young growth on the plants.

"Scale on ferns is difficult to treat with an insecticide on account of the tenderness of the foliage, and the most satisfactory method would be to cut off the worst fronds and then remove the scale from the remainder with a sponge and weak solution of whale-oil soap."

Rose Waban.

For nearly a year this new rose has been a subject of much interest to American rose growers and the "red *Mermet*" as it has been known has had much quiet advertising through those who noticed it at the Waban Conservatories at Natick, Mass., where it sported and has been grown under the care of Mr. Montgomery. For six months or more since its fixed color has been established our best judges of roses who have carefully examined it have been satisfied of its great value; reasoning that a rose identical with that great forcing rose *C. Mermet* and fully two shades deeper, securing blooms of extra fine color even in cloudy weather, must prove of great value as insuring every grower finely colored stock under all circumstances. Messrs. E. M. Wood & Co., the introducers, claim their sales of the cut flowers in the Boston market confirm these opinions of its great value and indicate that shrewd rose growers will profit by substituting it for *Mermet* even if at much higher prices than plants will be sold for. It is identical with *Catherine Mermet* in every characteristic except that in color, it is two shades deeper, being a bright pink and sustaining the same relation to the parent as *Duchess of Albany* does to *La France*. Silver medal of Mass. and Penna. Hort. Societies has been awarded to it. We take pleasure in presenting to our readers a very handsome colored plate as a supplement to this issue.

Phaius Humblotii.

This is undoubtedly one of the finest of the dwarf-growing *Phaius*. Some nine years ago a few plants were brought to Europe by M. Leon Humblot from Madagascar, in whose honor the plant was afterward named. At that time very high figures were realized for them. After a period of nearly seven years an importation was received by F. Sander & Co. with very successful results, and it is now to be found in every prominent orchid collection. The illustration here given will convey some idea of its free flowering habit. It is both dwarf and compact, and fortunately is an easy grower; the flower spikes attain a length of eighteen inches to two feet, and bear from twelve to sixteen large, well-formed blossoms. They measure individually two to two and one-half inches across; each sepal and petal is broad and suffused with a deep rose color; the lip is also broad and furnished on each side with a reddish crimson, having a very prominent golden yellow crest.

During the early summer months they enjoy an abundance of air which is then their period of active growth, but direct sunlight must be carefully avoided. When the growths are completed water should be sparingly given, though at no time should they become quite dry. A compost of rich, fibrous loam and fine peat in equal proportions with an addition of coarse sand suits it admirably.

Summit, N. J.

A. DIMMOCK.

Floriculture in the South.

Accepting your invitation to use the columns of the *FLORIST* for the benefit of southern readers, I will proceed to make a few general replies to your correspondent's queries from an experience gained within the past six years in the commercial business in Tennessee.

With regard to the size of the houses it is difficult to go into detail in the absence of more particulars regarding the special line of business to be carried on. The class of plants to be grown, the extent of the demand to be supplied and the amount of capital to be invested, all are potent factors in the determination of the size of the houses to be built, in the south as well as in the north.

In a general way large houses are to be preferred for the south, as they keep cooler in summer, and this is of primary importance here, as with our mild winters the maintenance of a nice growing temperature from November to March is a very easy matter. Small houses where a man's head when standing in the south is within twelve or fourteen inches of the glass is had enough in the north, but quite unbearable in the south through the summer months, and the erection of all such small structures should be discouraged.

There are no conditions that I know of that would render any changes in the width of the houses or the pitch of the roof different from those recommended for the north. The taste and convenience of the builder should best determine these points.

In ventilation it might be well to provide more than is usually necessary for houses further north, though by no means do I regard it as essential to success. On the whole our summers are but little warmer than in the north, the only difference is we get the heat earlier in the spring and it stays with us until late in the fall. I have felt the heat as much in Connecticut as I have in Tennessee. I have also felt the cold as acutely here with 17° of frost as I have in the north with that many degrees below zero. Within the past few years we have erected several houses here, all span roofs with stationary sash bars and the ventilating sash only in the same proportion as is allotted for houses further north, and they have answered every purpose for which they are required. One point for the south is to get good end ventilation that will admit of a good current of air to pass through the house during a few of the warmest of our summer months. A good size double door on one end and a large window or sliding sash on the other will accomplish this. With this addition to the ordinary top ventilation a house of this kind with a good coat of whitewash on is about as cool a place as we have in summer here. This end ventilation is to get good end ventilation during the period of our warmest weather, as the draught caused by it would be injurious to all tender growths during the spring and fall months.

In most establishments in the south there are generally to be found a house or two devoted to *Tea* and *Noisette* roses planted in solid beds that remain for years undisturbed. Where such houses as these are desired a roof consisting of sash that can be entirely removed in the summer is a decided advantage, either north or south, as it reduces to a minimum the care of them through the summer months, and the plants keep clean and are consequently more vigorous and healthy. When cut back in the early fall,

the sash put on and heat applied a fair crop of flowers may be expected. With this exception I see no advantage in a roof that can be entirely removed. Moreover, they cost more than a house built of immovable sash bars. To be movable the tops would have to be sash and of sufficient durability to stand the continual wear and tear of moving on and off for no particularly good that I know of. Directly the top is taken off a house it ceases to be a house, and no operation can be performed there, or the cultivation of any plants carried on that can not just as well be done in the open ground. Potted plants of any kind will not thrive there for want of shade, and young roses on raised benches in shallow soil would be apt to suffer through July and August if exposed to the drying influences of the sun and wind. Immovable roofs except in the case before mentioned are to be preferred, and like the Irishman's overcoat that kept out the heat in summer as well as the cold in winter, the greenhouse roofs in the south can be used to a similar advantage. A house well ventilated, properly shaded with abundant facilities for watering and sprinkling at hand so that the humidity of the atmosphere can at all times be preserved, is more conducive to the growth of two thirds of a commercial florist's stock even in the south than to have the top removed and no protection afforded the plants from the sun and wind. The rival systems of heating—hot water versus steam—have their advocates and opponents in the south as well as in the north, though the hot water system is the one generally adopted. South of this point I know of only one establishment, where a steam boiler is in successful operation. For all small places a hot water boiler is preferable. Four-inch pipe is the best size to use, placed underneath the benches immediately inside the house and high enough from the ground to admit of a free circulation of air all around them. Less pipes will be required in the south than in the north, although it is always more economical to have a little more pipe than necessary than too little. All gardeners who have ever had anything to do with stoking know that with abundance of pipes and consequently a large heating surface, a smaller fire will yield as much heat as a larger one where but a few pipes and but little heating surface is supplied in the houses. Any of the hot water concerns advertising in the *FLORIST* will upon receiving the style and dimensions of the houses to be heated, the temperature desired and the average outdoor temperature of your locality in winter, give the necessary amount of pipes to be used.

The propagation and all the indoor culture of the carnation can be done just as well in the south as in the north. The only difference I find is, when planted out in summer larger and more vigorous plants can be raised in the north than we can raise in this climate. A proper selection, however, of a position to grow the plants through the summer will to some extent mitigate this evil. A low lying piece of ground should be selected that retains the moisture as much as possible through the summer, and should be cultivated to a depth of at least sixteen inches, eighteen would be better. If the ground is rolling secure a slope that faces either north or east and if facilities for irrigation are at hand so much the better. Continual working them will be necessary, as the clay soil in this section bakes extremely hard after each successive rain. With such provisions as these, carnations



GROUP OF PHAIUS HUMBLOTII

good enough for all purposes can be grown in the south, and only in the case when new varieties or an increase of stock is desired, is it necessary to send north for any.

The cultivation of the violet in the south is uphill work for all who pursue the same line of culture as is carried on in the north, the long dry summers in all cases being detrimental to the growth of young plants in the open air through the summer months. There is, however, a few favored locations in the south known to the writer where violet culture is carried on with some profit by one or two firms making a specialty of them. The southern summer is against the growth of violets, but on the contrary the southern winter proves most favorable to their bloom, development and productiveness, as is attested by the number of amateurs and lady florists all through Mississippi and Alabama that raise them in quantities for the northern markets. The secret of this success is, their beds remain undisturbed from year to year, and where once well established in this way they stand the summers better than young and newly bedded plants, such as are annually raised by northern florists. The violets raised in the south in this way in these permanent beds are small and inferior compared with those grown north by a more thorough system of cultivation. The inexpensive way with which these flowers are produced and the quantity in which they are raised is the

only offset to the other drawbacks against a higher and better style of cultivation. With violets, however, like carnations, fair plants may be raised in the south by a judicious selection of position and soil. A good cool northern exposure is the place for them in summer, and if grown in frames shading must be resorted to. We raise some fair plants here by planting early in spring, about four rows, on the north side of a close plank fence.

The question of rose growing in the south is rather a knotty one to tackle, and he who would be spared from the anathemas of many growers throughout the south would let it alone. That roses can not be propagated as freely in the south as in the north is well known to all southern florists, although we have found some who lacked the candor to make this admission. So far as their propagation in the greenhouses, propagation pits or frames in the winter months are concerned, northern florists have no advantage of us. The season, however, with which this propagation can be performed is short compared with the north, which detracts from the success of these operations here.

In the more southern states the propagation of hybrid perpetuals and other roses in the open ground through the winter months is attended with much success as is known to most of the readers of the *FLORIST*. The system of summer propagation, so successful with northern

growers, is attended with but little success in the southern states. Louisville, Ky., being about the most southern point where it is carried on with any degree of success, and as you journey southward this system is carried on only with varying success, the further south you go the worse the conditions are.

While the propagation of the rose in the south is not as successful as many would wish, all the other details of its culture can be mastered just as thoroughly in Tennessee or Georgia as in New Jersey or Illinois, and the forcing of roses for bloom in winter can be carried on in the south just as successfully and with considerably less expense than can be done north. Our winters are usually bright, with an abundance of sunshine, fire heat would have to be applied only at night, except in extreme weather which is happily but of short duration. In view of this it is rather surprising to think that more than two thirds of all the cut roses used in all the large southern cities are all brought on from the wholesale growers of the north and east, Louisville, Ky., and the cities in the extreme south where outdoor roses are frequently had in winter, probably excepted. That an opening exists in some of our southern cities with ample railroad facilities for a large rose growing establishment that could supply rose buds by wholesale to supply the retail trade in those cities, anybody that knows the trade in the south best will not deny. Much trade also might be

done with the northern cities in this way, as with cheap land, cheap fuel, cheap labor, a genial climate and a generous soil, competition from all sources could be profitably met. I hope soon that some of our southern capitalists will become aware of this fact, and this branch of the florists' industry may be soon added to the numerous other rapidly growing enterprises that are daily springing up in every section of the south.

With regard to the preparation of roses for winter blooming in the south, there is no special preparation necessary other than is usually practiced by northern florists. Clean, healthy young plants set on raised benches, in shallow soil, produce the best results both north and south. July is a good month to plant for the south. Not less than strong 3-inch pot plants should be used. If planted sooner than July 2½-inch pot plants, provided they are well established and thrifty, will do so. Keep growing vigorously from the outset, much through July and August. After September 1st remove all shade and give all sun possible. Pinch off all buds until about three or four weeks before bloom is required. Apply fire heat at night as soon as the cool nights begin. Syringe always on bright days and when much firing is done to keep the plants clean and maintain an equable growing temperature. Feed the plants with liquid manure when vigorous growth is attained, and top dress by degrees as the plants require it. *Perles*, *Mermets*, *Brides* and *Niphetos* are most generally grown south and are to be commended. *Gontiers*, *Bennets*, *Beauties*, *Woottons* and other dark roses are in but little demand in the south, the light colors being always preferable. Talking with a wholesale grower in the north last summer, he asked "Why is it that we can never sell you southern florists any of our dark roses? The southern demand is invariably for white or yellow and occasionally pink."

The enquiry as to the advisability of planting roses in the open ground and covering in fall with a specially prepared sectional greenhouse; to this I would say if the object should be to procure cut blooms through the winter months I am confident such a course would be folly. Cut blooms could not be raised in this way in sufficient quantities to anywhere near compensate for the labor involved. If houses are to be provided at all, better go to the additional expense of fitting them up properly with benching, heating apparatus and other necessary appliances, and if in this way they can not be made to pay for the capital invested, they certainly would not in the other way suggested.

JAS. MORTON.

Clarksville, Tenn.

A Criticism on Gladioli.

Some say there has been little improvement in the new gladioli of late years. Looking over the entire list we can see more good gladioli that have been introduced the past fifteen years than all the previous years combined can show. There were many good varieties prior to fifteen years ago, and I don't think one out of twelve of the novelties are really great, at least one out of twelve will take every really fine variety introduced. It is a hard matter to get a variety evenly balanced.

I will criticize some of the sorts which I consider the finest, not including those of the most recent date. As all have favorite colors I do not propose to confine myself to particular colors I fancy, but to varie-

ties of good habit, fine blowers and fresh, bright colors.

Abricote, good in every way except that it is a poor grower and slow to propagate.

Africaine, good, making no pretensions to very large spike or flowers. It has a deep, distinct color; a good grower.

Angele, good habit, medium flower and spike, never extra fine but always good.

Archduchess Marie Christine, good flowers but flimsy. We have too many of what are called variegated or "whites flamed with rosy carmine," etc. Many varieties of this color run so close it is hard to tell them apart, and a strange point is the flowers of many are flimsy.

Astree, moderate-sized, quite striking in color, but small spike. Poor grower.

Aurora, good habit, spike and flowers medium, the latter very good shape. In this variety the flowers envelop the spike in many cases. This style, if you can get it good enough and constant enough, in my opinion, is the most perfect arrangement of flowers on the spike that we can get, although the popular idea is to have the two rows of flowers face one way. *Meyerbeer* is the best example of this that I know of.

Baroness Burdette Counts, good, sometimes very large, petals always rather thin. Sports from very good to quite poor.

Bicolore, strong grower, rather coarse. *Cameleon*, distinct color, rather good habit.

Conquette, good, pleasant color, no bad habits.

Cosair, very effective color. Flower and spike rather small. Slow propagator.

Diamond, on the light variegated order, rather good flowers but flimsy.

Eugene Scribe, one of the old cheap ones. Habit good. Good flowers; very firm. Color not very brilliant and rather coarse.

Flamingo, habit good, fine scarlet. By the way, fine scarlets are scarce.

Grand Rouge, this has a grand habit on the heroic order. Flowers face one way. Frequently all the flowers, from base to tip, are out in good condition at once. Has a bluish tinge on the lower petal. This is a fine gladioli, though a little coarse perhaps.

Hesperide, with some a great favorite. It is a pretty gladioli, but has two faults, the flowers are flimsy and the spike is almost always crooked, having an offset at the bottom of the lower flowers.

John Bull, an old one. Sometimes coming quite good, other times coming hard. This is largely used for light colors.

La Candeur. The bulb is nearly always small and bad looking. A weak grower and loose spike. Flowers rather thin, but many times coming very white and quite large.

La Fiancee. This variety has been very difficult to get true. Good habit, light color, a distinct bluish violet line in the lower petals.

Lander has a distinct color, rather open spike, a little coarse.

De Lesscops. Good of its class.

Vesuve. A good scarlet.

Madame Auber. A good one.

Madame Desportes. A good white, but one of the hardest of the entire list to increase.

Madame De Vetry. If it had not been catalogued so extensively I would not have mentioned it. Light color, spike often crooked, not number one.

Mademoiselle Marie Mies. Large flower and good habit.

Marie Berger. Fair habit, medium flower. One of the most distinct in its

way. Flowers have a satin gloss seldom seen on any others.

Marie Dumortier. I mention this on account of its peculiarity. I think that it takes a larger bulb of this variety to bloom than any I know of.

Meyerbeer. One of the oldest and very good. The habit of this is most excellent, illustrating the type of flowers facing one way. It will have as many flowers out at one time and in good condition as any variety I know of.

Nereide. A most lovely color and fine habit. Good flowers, but poor grower.

Norma. Good habit. Large flower and good shape. One of the best French whites, but at times sports badly.

Ondine. A good variety, distinct whip foliage.

Phœbus. One of the best of the type of the scarlets with white throat. On the *Le Poussin* order, only much better.

Reine Victoria. Occasionally comes showy. Usually the flower is hooded and spike crooked.

Skiespeak. Good habit, good grower. In many cases the flowers envelop the spike. Occasionally single flowers come beautifully tulip-shaped. At times very good, at other times very bad.

Stella. Of moderate merit. The bulb generally looks poor and spotted. This peculiarity of the bulb is the only reason I mention this sort.

Talma. The French evidently let out two sorts for this variety, as we received two kinds among the bulbs we got from France, each one answering nearly the description.

Theresa De Vilmorin. This cost \$6 the first year it was introduced. Fair habit. Of considerable merit.

Van Spandonck. Small flower and rather poor habit. Intensely red.

Victor Jacqueminot. Good habit, spike medium. Flowers rather large and of fine shape, tending to envelop the spike. Sometimes individual flowers of this sort are almost perfect. Poor grower.

Ceres. We mention this on account of the bulb growing so small. It is very hard to get large bulbs of this sort, but it blooms very freely from very small ones.

The test points we look for a gladioli to conform to to be called first-class are:

The spike must be long and straight, the flowers good sized and nearly tulip-shaped, or, in other words, the petals to be nearly one size, closely laid together and the petals, laid on the spike, either to present a solid appearance on one side, or, as we have described before, to envelop the spike.

The substance should be good and firm. The flowers should not rapidly become smaller toward the top. The nearer you can have the flowers one size from bottom to top of the spike the better.

A number of flowers should be in perfection at one time, or, in other words, the entire spike should be in full bloom before the lower flowers are passed. In many kinds, and quite good ones, too, two or four under flowers open, and before many others open these have already faded. This spike can never be made to present a fine appearance, no matter how fine the individual flowers are. *Grand Rouge*, *Meyerbeer*, and several others, represent the style of the entire spike in good condition at one time.

Brenchleyensis opens too quickly from bottom to top, and its period of perfection is therefore much shorter. At certain time of the year I have seen *Brenchleyensis* open from bottom to top in twenty-four hours.

Madame Monmeret, *Agatha*, *Jupiter* and *Reine Victoria* are good illustrations of



CAMPANULA PERSICIFOLIA ALBA.

[REPRODUCED FROM LONDON GARDEN]

spikes that open a few flowers at once and fade as soon as a few more are open.

I should like to know how my ideas conform with those of the great gladioli experts of the country. OCCASIONAL.

Campanulas.

Among the campanulas or bell flowers we have many beautiful and useful garden plants; some, as the harebell (*C. rotundifolia*), are perennial, others, as the Canterbury bell (*C. medium*), are biennial, and a good many, as *C. macrostyla* and *C. Loreyi*, are annual.

Although the annual species are pretty enough in their way as open air garden plants, they are of little avail to the commercial florist.

Among biennials a little species called Wanneri is a gem, it has such large showy flowers, and another named Sibirica looks like a dwarfed Canterbury bell and is quite interesting. What is generally known as the chimney bell flower (*C. pyramidalis*) although a perennial, always does best with when treated as a biennial. Besides the blue there is also a white variety; when in bloom they form long slender or branched wands three to six feet high. But the Canterbury bells

and their cup-and-saucer (calycanthema) section are the glory of the whole campanula race; the pity is, however, they are barely quite hardy. And as pot plants forced early for conservatory decoration or for cut flowers, no other bell flowers are as good.

In the way of perennials not only have we a large variety of species but a great assortment in the way of size and manner of growth. The little *C. pulla*, *C. pusilla* and *C. turbinata* make lovely little mossy tufts of close-set green leaves thickly studded over with blue flowers. Our common harebell (*C. rotundifolia*) and its white variety and the Allegheny *C. divaricata* represent an elegant slender growing section, and *C. fragilis* droops in a manner to make it a pretty little basket or bracket plant if grown indoors, or better still to spread over the edge of a stone in a rockery; indeed all the above perennial kinds are particularly adapted for rockwork.

The bolder perennials can be grown to rough it in the open field or border. Best among them all is the peach-leaved bell-flowered (*C. persicifolia*) and its white-flowered variety (the subject of the beautiful illustration) and its double white form called *coronata*. They are ever-

green, of the easiest possible cultivation and in bloom in early summer, lasting in flower for a long time. Other vigorous kinds worthy of cultivation are *punctata*, *nobilis*, *lactiflora*, *grandis*, *barbata*, *Van Houttei* and *macrantha*. Of course everybody knows the Carpathian bell flower (*C. Carpathica*), blue and white, and finds a place for it in his garden.

There are white flowering forms of many of the blue-flowered species, and oftentimes the white one is the most desirable.

All the species are easily raised from seed, but as the varieties often come irregular both as to form and color, it is better to propagate fine forms and double-flowered sorts by division.

Now while all of these campanulas are useful garden plants we can not depend much upon them for cut flowers. They yield blossoms abundantly enough, and the florist who does a local trade can use many of their white flowers to good advantage, especially of the peach-leaved bell flower. But, apart from this kind and Canterbury bells, I don't think it would pay the florist to grow campanulas for cut flowers. No matter how charming we ourselves may think them, try them on the market if you wish to find out how the general public appreciate them. And with private families, while for variety's sake they may submit now and again to having a vase filled with bold campanulas, for dinner table or other nice decorations campanulas find no place. And we can not now do as our grandmothers used to make up bunches of mixed posies, there must be enough of one kind of flower for one dish, and that flower must have color, form and comeliness for this end. W. F.

From Boston to Toronto.

The delegation from Boston to the executive committee meeting, accompanied by Treasurer Hunt and Mr. W. R. Smith, of Washington, visited Montreal on the outward trip and were the recipients of the most unbounded hospitality from the florists of that city. The opportunity to see Montreal in her winter dress was greatly enjoyed by all, and the unremitting attentions of the brethren there will never be forgotten by those who were so fortunate as to participate.

Returning home the Boston party, accompanied by Mr. Burton, were induced by Mr. Smith to come by way of Washington, a round-about route which they did not regret when they found the reception which had been arranged for them by their good friends Durfee, Smith, Hale and Evans.

After an inspection of the interesting collections at the Botanic Garden, a call at the extensive rose houses of C. Strauss & Co., and a visit to various points of interest the visitors were escorted to the Capitol, where, in one of the private dining-rooms, had been prepared a sumptuous banquet, and at which they were honored by the company of a number of prominent men in Congress, including Senators Blackburn of Kentucky, Cullom of Illinois and others. A huge mound of roses graced the table and the room was finely decorated with plants. The after dinner exercises were of such a character as to be remembered by the guests as one of the most enjoyable occasions of their lives. W. J. S.

BUFFALO.—A number of the members of the Executive Committee of the S. A. F. made a short stop here while on their way home and were entertained by a dinner at the Mansion House.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XXIV.

ABOUT CHATTEL MORTGAGES.

Getting so rich are you that you have become a money lender? Well, I'll take your word for it that, you let your business friend have the money as a personal favor and that although you wanted to regard it as a "debt of honor," whatever that is, yet he insisted upon giving a chattel mortgage on his stock in trade.

Now you have had a row and are ready to foreclose, but he insists that in selling him out you can't take his movable sash from his hot houses nor even his forcing frames.

Of course a chattel mortgage can't rest upon real estate, and when I say real estate I include all building resting upon foundations, all trees, shrubs and plants growing in the soil, and belonging to the place as distinguished from the flowers, seed, plants, nursery products, etc., which go to make up a florist's stock in trade. All these may be enumerated in a chattel mortgage and be sold under the foreclosure.

Now, in my opinion, you may sell his forcing frames, but may not sell the movable sash of his hot houses unless perhaps there be a double set, and even then I'm inclined to think they belong to the real property just as much as the double sash for the cellar windows of the house belong to your residence.

You know in the olden times the common law of England went so far as to hold that a thief couldn't be arrested for stealing growing turnips or cabbages, as they were real estate, and a man couldn't steal land although he might trespass upon it. But they don't rule so strictly now.

A chattel mortgage upon a florist's establishment might legally rest upon a manure heap, for it is a valuable article to such a dealer, although it be simon pure dirt, that is real estate. But while such a mortgage might clean out a hot house of plants, vines, slips, cuttings, pump and hose, yet it couldn't disturb shelves fastened to the structure, or a heater set in the wall.

On the other hand a stove would go the way of all flesh, and so too would all ornamental things like a looking glass, cabinet hanging on the wall, safe, chest of drawers, ice box, unless built in the wall. And suppose your man being of an æsthetic turn of mind, had laid down ornamental tiles, these you could sell provided you restored the premises to their former condition. I'm assuming now that your man is the lessee of the premises and not the owner in fee. If the latter the tiles would not be removable under your chattel mortgage.

The law always looks to the interest of the person in attaching anything to the realty. For instance, if merely attached by screws, as a movable shelf against the wall, it is apparent that the person had in mind the removal of the shelf and a chattel mortgage would include it.

Now, we'll suppose that a chimney of the hot house smoked and your man as lessee set a rather expensive metal pipe and draught wheel on it, you could, I think, remove it under your mortgage, provided you restore the hot house to its first condition. No one has a right either as lessee or mortgagee to injure premises by removing any piece of personal property from the realty. The shelves of a dry goods store together with the count-

ers are sold under a chattel mortgage, but you must upon removing them take good care not to break the walls or damage door jamba or tear up the floor.

This subject of chattel mortgages is a peculiar one. You must follow the statute strictly and I would advise you never to attempt to file a chattel mortgage yourself or to renew one either. Employ an honest lawyer. Don't laugh. Century plants bloom at long intervals and you may find an honest lawyer by searching assiduously.

The law of chattel mortgages differs in every state and in most states they must be renewed within the last thirty days of the year for which they are drawn.

You ask me whether the clause in your chattel mortgage which provides that you are also to have a lien upon goods which your mortgagor may acquire after the making of the mortgage is good? I say no most emphatically. A chattel mortgage only covers goods and chattels in actual possession at the time of making and filing or recording of the instrument. Yes, it is usually customary to give a week's notice of foreclosure, but a mortgage drawn payable "on demand" may be foreclosed the instant you default in payment.

In some states you have "an equity of redemption" as it is termed, that is a right to buy back again, usually sixty days, but in other states the sale is absolute. Any one may give the usual notice and put out the red flag, but it is customary to employ a constable to perform this service.

Always be particular to take a note from your man and then let the chattel mortgage be collateral to that note. In case the sale doesn't discharge the note indorse the amount of the sale upon the back and bring suit for the balance due.

Always keep a copy of your chattel mortgage, whether you give or take. As you say, no mortgagor has a right to remove any of the goods or chattels without written permission, but if a dealer he may as your agent continue to sell and account to you for the proceeds. A business may be sold subject to a chattel mortgage resting upon it.

Never put a chattel mortgage upon your stock in trade unless it be for money absolutely advanced. I mean don't execute fictitious chattel mortgages to cover their ups. Deal openly and honestly. It pays in the long run.

UNCLE BLACKSTONE.

New York.

Business again at a standstill and the market glutted.

Armies of Greeks line the principal streets offering flowers for nigh nothing, the scene may be picturesque but one the trade in general dislikes.

The once famous balls and dinners have dwindled down to such an extent that they now pass unnoticed by the press. There have been no elaborate floral decorations this season as yet (none of the magnitude of past years). The Assembly Ball at the Madison Square Garden, though patronized by the "upper ten," was but a cheap affair. Butler used to have a \$500 decoration for this ball, but now they are content with "a few frims in the corners" and some greens in the hallway, which they procure from some remote florist at a total cost of some fifty dollars.

The famous Delmonico decorations have ceased; the ball room has been remodelled, the plastic art usurps the florist's. The decorations after the style of Louis XIV

with a touch of the renaissance look very beautiful, but alas, the proprietors will not allow the walls to be "disfigured" with flowers or plants, and at the recent Patriarch's Ball very few flowers were used, nothing but the hallway and "red" room being decorated. The decorations (though insignificant for such an occasion) were very artistically arranged by Merritt of the Klunder Co. Klunder at first received \$1,000 for each decoration for this ball, now it is done for \$100 to \$200.

The Charity Ball given at the Metropolitan Opera House, like the Assembly, used to be famous for novel decorations. Now, imagine the largest opera house in the states and the richest people in the state dancing there, with no decorations outside of \$75 worth of Christmas trees lined along the foyers! And so one could continue contrasting the beggarly affairs of to-day with the glories of the past. The Bradley Martens were probably the best plans in this country of the artists, their decorations were always the best procurable, magnificent in every degree, and it so followed that wherever they were invited out the host endeavored to have the house decorated with orchids and the table with Gloire de Paris roses. It is to be regretted that the Bradley Martins intend remaining in Europe for some time.

Nevertheless there have been a few exceptions. The Vanderbilt family have been stirring things a little. At the Webb and Twombly receptions Thorley did some of his beautiful work, ornate and hybrids being his principal materials, while Klunder decorated W. D. Sloane's dinner table with a center piece containing three thousand and fifty of the valley; on this table stood two gold candelabras valued at \$20,000. Cornelius Vanderbilt's dinner table was artistically decorated by Dards. This dining room is all that wealth can make it, and when the eight immense silver platters are filled with fine La France, as on this occasion the effect is charming.

The decorations for the W. H. Vanderbilt musicale were arranged by Hodgson, bulbous flowers being principally used. The decorations for the Mills Ball were supplied by Burnham & Co., roses and flowering plants forming the greater part. Stump decorated for the Baker and Crimmins receptions, and the Holland Society's dinner, 5,000 tulips being used for the latter. Old Dutch milk cans were placed on the tables and filled with tulips.

Alex McConnell and McConnell & Grimshaw were also busy, as was everybody last week, but this week is the reverse.

Charlie Anderson is cutting some fine Magnas at present, but Magnas are "not in it," while Beauties are to be had.

Laings and Luizets are scarce. Mr. James Fitzgerald, of Astoria, who is considered one of the best carnation growers, claims that Buttercup is the best yellow carnation grown.

A bouquet of Harrison carnations tied with French white ribbon is the proper thing just now for a young lady's ball bouquet.

Bidwell Bros. are shipping in Schaefer carnations 2½ inches in diameter—creeping on to Thorpe's standard.

Tidal Wave is a fine carnation, with a somewhat inconsistent name. Recalling M. Herr's article on bunching carnations, we find that carnations tied in bunches of fifty, with a little of their own foliage between, sell best; bunches of mixed carnations tied as per illustration would not suit the New York market.

News Notes.

Regarding the bunching of flowers in general, some steps should be taken by the Florists' Clubs to disseminate a knowledge of the proper way to tie and ship flowers. We often see carnations tied with a couple of yards of string twisted up to the very calyx, then again violets tied with something like sash cord. Violets should be bunched in fifties, with plenty of foliage round and tied half way up the stems with a thin purple twine. Smilax should never be trained on white strings, as every such string must be extricated (oftentimes with great difficulty) before the smilax can be used. Green colored grocer's twine is the proper thing to use to train smilax and asparagus on.

Jonquils are very beautiful just now. Cottage Maid, Due Van Thol and Yellow Prince tulips are coming in in quantity. Myosotis has come in and is being eagerly sought for.

The Florist Club held a meeting on Monday evening for the purpose of considering the advisability of giving an exhibition. It was decided to hold one in the Lenox Lyceum shortly after Easter.

A movement is said to be on foot among the young men of the principal stores to organize a social club in connection with the Florist Club for the purpose of giving a grand floral fête and ball this season.

Orchids may be seen in nearly all the principal stores at present, it seems to have been a remarkably good year for blooms. Cattleyas are very fine and plentiful. DeForest says he can cut from 500 to 800 blooms of C. Trianae almost any time just now. C. Percivalliana and Lælia anceps look very small among Trianae. Phalaenopsis amabilis and alba are very scarce, as very few care to bother much with it, it seldom pays. Odontoglossum crispum is easier to grow and nearly as good. Dendrobium Wardianum is fine to use in groups for decorations, to contrast with groups of Oncidium tigrinum, which are plentiful just now. Vandas hold their ground pretty well, but Lycaste Skinneri don't take at all, it is too easily damaged. Cypripediums are not so plentiful this year, yet there is little demand for what there is of them. Why don't orchid growers also grow A. Farleyense? JOHN YOUNG.

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These two facts combined must give us a permanent value of more than 50 per cent above ordinary waste basket literature.

Oil and Gas for Fuel.

Has any reader of the FLORIST had experience in substituting oil or water gas for coal? What was the cost of such change and cost of running as compared with coal?

EDWARD SWAYNE.

Kennett Square, Pa.

LITTLE ROCK, ARK.—Florist E. Coleman has failed. The liabilities are reported to be about \$8,000, and assets double that amount.

WELLSBORO, PA.—Christmas trade was fully up to last year. Could always sell more at that time if additional supply could be obtained at reasonable prices.

GALENA, ILL.—B. F. Vandervate, Jr., has bought the old greenhouse that was run by D. W. Scott, has started to rebuild and add to it and will be ready for spring trade.

AKRON, O.—Mrs. C. E. Hoag & Son began a florist's business here last summer with one greenhouse. They do not appear in the directory and should be added to the list.

FORT SCOTT, KANS.—The holiday trade was very good. Owing to the warm and pleasant weather for the two months preceding, flowers were abundant and in first class condition. Prices were not quite so good as a year ago yet the stock was all sold out. There was an increased demand for baskets.

DENVER, COLO.—The annual meeting of the Colorado State Bureau of Horticulture and Forestry was held in this city the 8th, 9th and 10th insts. The object of the bureau is the promotion of fruit and forest culture. A special feature of the meeting was a paper on nomenclature of fruit by T. T. Lyon, of South Haven, Michigan.

KANSAS CITY, MO.—N. S. Griffith, the Independence florist, has bought out the Baker Bros. here. Their plant is devoted mainly to the growing of cut flowers. Mr. Griffith will now devote his Walnut Hill greenhouses at Independence, Mo., entirely to the catalogue plant trade. In addition to his store at 1022 Main street he will also run the store occupied by Baker Bros. at 16 East Seventh street.

MILWAUKEE.—A party of local florists visited Mr. J. M. Dunlop's place at Wauwatosa on the 13th and spent a very pleasant afternoon curling. A number of the members of the Wisconsin Florists' and Gardeners' Club also visited Wauwatosa recently, calling upon Mr. G. W. Ringrose, who served refreshments to the party, after which they were taken in carriages to all the greenhouses in and around Wauwatosa.

CINCINNATI.—Mr. Geo. Corbett read a very able and interesting paper on watering at the meeting of the Cincinnati Florists' Society on the 10th inst. Officers of the society for the ensuing year were elected as follows: Geo. Corbett, president; B. P. Critchell, first vice-president; T. J. Jackson, second vice-president; R. W. Wintershaetter, treasurer; E. G. Gillett, secretary; T. W. Hardesty, assistant secretary; H. C. Corbett, R. J. Murphy and Wm. Bolia, executive committee.

PITTSBURG.—The organization of the Pittsburgh and Allegheny Florists' and Gardeners' Club was perfected at a meeting held on the 15th inst by the election of the following officers to serve the ensuing year: E. Reineman, president; Snowden Randolph, vice-president; Geo. Asterly, secretary; John Hartman, assistant and recording secretary; Fred Burki, treasurer. Among the trustees are John Herron, Gus Ludwig, John Bader and B. A. Heck. A committee was appointed to secure a permanent meeting place and to arrange other preliminary details.

OTTAWA, ONT.—At the last meeting of the Gardeners' and Florists' Club it was decided to extend an invitation to the Society of American Florists to visit this city on the occasion of the session at Toronto next August. Officers of the club for the ensuing year were elected as follows: President, Jas. Sorley; First Vice President, Jas. Hickey; Second Vice President, Thomas Elmit; Treasurer, J. Graham; Directors, Messrs. Nicholson, Williams, A. Hickey, McGee, Scrim and McCann. The election of a secretary was left to a later meeting. The club now has a membership of forty-six.

SAN FRANCISCO.—The third annual meeting of the California State Floral Society was held on the 9th inst. The following officers were elected for the ensuing year: President, E. J. Wickson; Vice-President, Mrs. L. O. Hodgkins; Secretary, Emory E. Smith; Treasurer, Mrs. M. S. Sperry; Directors, Timothy Hopkins, of Menlo Park, and Miss B. M. Pratt, of Fruitvale. The secretary's report showed that the society has held twenty-nine monthly meetings and has a membership of 150. The treasurer's report showed a balance of \$330 in the treasury. The theme for next meeting will be "What kind of roses make the best standards on their own roots, and which are best budded?" Also "Climbing plants aside from climbing roses." Miss C. G. Athern will read a paper on this subject.

NEWPORT, R. I.—The local papers have recently devoted some space to the airing of a difference which has arisen between Florist Arnd Brandt and the Newport Horticultural Society. It seems that Mr. Brandt did not at first intend to show any of his plants or flowers at the chrysanthemum show given by the society last November, but was finally persuaded to enter at the last moment by the executive committee, as the entries up to that time had been small and the indications were that the show would be thin. It was understood by Mr. Brandt that the time for entry had been extended and that he would be entitled to any premiums he might take, and the judges awarded him a goodly share of prizes, a list of which was given to the press for publication. But the premiums have never been paid and it is claimed by the society that Mr. Brandt was debarred from competition by entering after the time for same had expired. Mr. Brandt is now taking legal steps to secure the payment of his claim.

LARGE VIOLETS.—Florist J. L. Loose, Alexandria, Va., writes: tell the Nyack boys that if they want violets covering a silver dollar, we are picking them here by the thousand.

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THE CHRYSANTHEMUM BEE-FLY.—Regarding the different views held by W. F. and himself as to the usefulness of this insect in effecting desirable crosses among chrysanthemums, Mr. Wm. J. Rowe, New Haven Conn., writes: "As respects me, I have but little hope of coming to a mutual agreement, if W. F. will send me his address I will present him with plants of a majority of the seventeen new sorts I mentioned in my communication, to be grown and tested by him, so that what the eye beholds the heart will have to believe."

MR. H. BAUER, of Baltimore, sends us a white carnation flower which measures three inches across, has very deeply fringed petals, is remarkably fragrant and unusually full. But the calyx is short and badly bursted. He asks us to give an opinion on the flower in these columns. The size, fragrance and substance are nearly all that could be asked for, but it would have to possess a much more perfect calyx and better stem to be considered a really first class flower.

AS WILL be noted there appears in this issue a number of communications in which the writers express surprise at the smallness of the cut of bloom from the Lamborn carnation as given by Mr. Chitty in a recent issue. We began to put them into type, but as they came thick and fast, all covering the same point, it seemed unnecessary to print them all. This in explanation to those whose notes on this matter do not appear in our columns.

WE HAVE received from Mr. A. Hallett, Fayette Springs, Pa., a box of blooms of the Chinese primula, none less than one and a half inches, and many fully two inches in diameter, all of very good colors. Mr. Hallett writes that the flowers were cut from plants that are three years old and he considers this "sufficient to show that it is not necessary to sow seed every year as is claimed by some florists."

SOME SPECIMEN blooms of the new carnation, "Nellie Lewis," have been sent us by James Vick, Seedsmen, Rochester, N. Y. The light background is so thickly sprinkled with scarlet as to give the appearance of a dark pink flower at a distance. It may take as a catalogue sort, but hardly as a cut flower variety for florists.

AGAIN we remind our readers that we positively shall not admit to our columns a communication signed by simply an initial or nom de plume unless the the real name and address of the writer is given for our own information. The attention of "subscriber" who writes a note on the "Climbing Perle" is called to this rule.

ALL LOVERS of orchids will be pleased to learn of the intention of the publishers of *Lindenia* to issue an edition with English text, as announced in our advertising columns this week. The American edition will make this beautiful publication much more useful to orchid growers here.

The Society of Indiana Florists convened in annual session at Lafayette on the 21st inst. This is the fifth annual meeting of the society. Several valuable essays on trade subjects were read, including papers on the rose and the carnation.

H. H.—The violet blooms sent are certainly very new. Can not say what is the trouble, but it is probable that your plants are affected with the disease now so common among violets and called the violet disease. There is no known remedy.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a German gardener and flower grower. Good references. Address Box 1, Central Valley, Orange Co., N. Y.

SITUATION WANTED—By a German gardener: aged 30; single; competent in all branches, private or commercial. F. H. PERA, LaGrange, Ill.

SITUATION WANTED—By a first florist and gardener, thoroughly competent, private or commercial. First-class references. Address H. V. 25 S. 4th St., Harrisburg, Pa.

SITUATION WANTED—By first-class florist to take charge of commercial or private place. Age 29; first-class testimonials. State particulars. E. FLORIST, Box 765, Kalamazoo, Mich.

SITUATION WANTED—By good German gardener. 30 on commercial place; 3 years' experience in America. Good references. Married. Address W. WITTMAR, 452 Belmont Ave., Chicago.

SITUATION WANTED—By a practical gardener 30 on private place; German, 40 years old; married. Best of references. Address M. F. BUCK, 312 S. Washburn Ave., Chicago.

SITUATION WANTED—By gardener and florist; single, age 31, in private or commercial place as foreman. Scotch; age 3 references. Address Apply W. N. care American Florist.

SITUATION WANTED—By Feb. 1, as foreman in a commercial place; thorough, practical experience in growing hybrid and sea roses, chrysanthemums forcing of bulbs and all kinds of cut flowers. Single; first-class references. Address F. FLORIST, 113 West 30th St., New York City.

SITUATION WANTED—By March or April as a practical gardener and florist; competent in all branches. Private place preferred. Good grower of roses generally, cut flowers, fruits, vegetables, also tropical plants; laying out choice gentlemen's places. 35 years experience; age 32; married. Address references. Desiring to change climate, North Middle States preferred. Mention salary. Address G. A. BOEHL, 75 McGovery St., Chicago.

WANTED—A second hand florist's ice box. G. VAN BOCHOVE & BRO., Kalamazoo, Mich.

WANTED—First-class florist. A man; sober, reliable, all round grower, in city of 40,000 population. Address care J. C. Vaughan Chicago.

WANTED—A good propagator; a good steady man, sober and industrious. State wages wanted and give references. Address N. N. & NEUNER, Louisville, Ky.

WANTED—To buy a good florist's business in a live town within 30 or 40 miles of Chicago. Address full particulars. F. M. care American Florist, Chicago.

WANTED—To let a good, sober, single man, experienced in cut flower growing, free of charge, a new and very greenhouse in city of 3,000. D. E. DARTCH, Harrison, Arkansas.

WANTED—Gardener; single man capable of growing carnations, roses, violets. Address with references and salary desired. Address ANDREW FRIGGSON, 43 Collins St., Detroit, Mich.

WANTED—A thorough, practical florist, to grow palms, ferns and orchids for commercial purposes. Give references and salary expected. Address Drawer 585, Minneapolis, Minn.

WANTED—Competent foreman for large commercial place, both plants and cut flowers for shipping. State salary expected, and name references when applying. Address O. care Am. Florist.

WANTED—To rent some greenhouses in a good locality within 15 miles of Boston, with some land and house connected, must be in good repair. Address care Saml A. Parsons, 230 Tremont St., Boston, Mass.

WANTED—A young man with some experience in greenhouse work, must be sober, industrious and willing to work; steady place for the right man. Address, stating wages, Lock Box 178, Sharon, Pa.

WANTED—A first-class florist, to take charge of a set of houses; must understand the growing of roses and other cut flower plants; also plants for the wholesale and retail trade. Address A. GIDDINGS, Danville, Ill.

WANTED—To buy any of the following: Echeveria, Peacock, Pachyphitum, Brachycaulium, Pachyphitum, Aureum. Address, stating quantity and price. E. care W. F. Sheridan, 32 West 7th St., New York City.

WANTED—An active, progressive greenhouse gardener, who could act as times agent in order and packing department of a large commercial place. Give references and particulars. G. G. Lock Box 1618, Philadelphia.

WANTED—Active business man with cash to take an interest in first-class florist business, well established; 3 greenhouses 100 ft. each, heated by steam; well stocked and in good condition. Address J. CLIFF, care Am. Florist, Chicago.

WANTED—Gardener to take charge on or before the first of April of a private place within 100 miles of New York; must be thoroughly up in growing of vegetables, small fruit, flowers and grapes both in open air and under glass; will have to board his men. Address giving experience, references, age and wages desired. Address I. G. Postoffice Box 53, New York City.

FOR SALE—A country hotel with greenhouse, in a prosperous Connecticut town. For particulars address Hotel.

FOR RENT—or will sell four houses, each 2 each, heated by steam, in a live western city, over 100,000 population. Address J. T. C. care American Florist.

FOR SALE.

Five greenhouses in town of 60,000, good shipping facility, etc., railroads leading in sixteen directions. One of the best openings for a live, capable man. Property on all four corners of a city block. Soil particularly good, security for balance. Address X. Y. Z. care American Florist, Chicago.

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale Importers should write us for prices.

Our new Bulb Catalogue is now ready. Will be mailed free on application.

SPECIAL FOR FLORISTS.

About February 1st, we shall print a large edition of circulars illustrating the Japan Snowball and the Red-Flowered Dogwood.

For orders for circulars received previous to going to press we offer them at very low prices. Circulars have your name and address on them; Sample and prices on application.

Every florist can sell a large number of these beautiful shrubs at very little expense, and the profit on them will more than pay for the effort. The following from a New Jersey customer speaks for itself:

"I am meeting with good success in the sale of the JAPAN SNOWBALL, and the prospects that I shall sell you a large order for them. Have sold so far seventy-three plants."

MEEHAN'S NURSERIES, STATION "G" GERMANTOWN, PHILA.





New Rose
WABAN.

The Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

Advertising Wisdom.

[Extracts from *Printers' Ink*, January 1.]

TWO RULES IN WRITING ADS.

Absolute simplicity of expression. Forget that there are other merchants within a thousand miles of you, or a writer within ten thousand, and write for the people alone whom you want as regular buyers at your store.

HOW TO MAKE UP AN ADV.

Write out what you have to say, put it in the hands of the type-writer and make half a dozen copies of it, strike out words here and there and put in new ones. Be sure there is no ambiguity. Then consider your principal lines and their relations to each other. No printer can do justice to two or three great display lines next to each other. They must be set off by other lines and separated by blanks.

When this seems reasonably good send over the copy to a good printer. Don't say you want to see proof the same afternoon, but give him time enough to do it as well as it can be done. It might be respectfully done by an ordinary workman, but the best workman might be employed on something else which could not be left. Give the printing office a show.

The display lines must particularly be looked after. They frequently do not appear as well in type as was previously thought, and must be changed. No very skillful advertisement was got up at the first attempt. Let the printer put the matter in type the best he can, and then alterations can be made. Sometimes when it is thus in shape some statement seems raw or inadvisable. Change it. Never put a line of type in an advertisement that cannot be easily read. Script, black letter, fantastic types are inadmissible.

Thirteen picas, or two and one-sixth inches, is called the standard width. The authority for this is rather obscure, but it is undoubtedly the width most in vogue. An electrolyte for general use should not be made wider than this, and one that does not exceed two inches in width is better still. A good effect can be made with cuts of the latter width, and they can be used anywhere.

CLASSES OF ADVERTISING.

I propose to class advertising space in telephone books, so-called blue books of gratuitous circulation, pamphlets containing hack and herdic rates, lists of express offices, free-gratis cooking recipes, and books and pamphlets of like nature, under the head of general desultory advertising. At very low rates cover positions may have certain value, but inside space is worth about as near to next to nothing as can be without being nothing.

By desultory advertising I refer almost entirely to advertisements in that class of publication known as the paper without paid circulation; to advertisements encircling maps and charts; to advertisements in unofficial time tables, and in other matter supposed to be hung up in conspicuous positions.

Few, if any, of these pay the advertiser one quarter of one per cent of his investment.

The best rule, and the only rule to follow is, I believe, to advertise in nothing

of doubtful character—to stick to the newspaper and the legitimate product of the printing press, with such few additions as will appropriately fit into your business.

Actual experience has taught me that a discount of about 90 per cent should be made on any statement made by a canvasser before advertising in any map, chart, gift paper, or anything else which does not have a bona fide sale and subscription list.

I do not believe in city directory advertisements, with the exception of outside cover spaces and a few conspicuous inside positions.

Good printing and good color work, used in conjunction with newspaper advertising, allows the one to increase the value of the other.

I am a firm believer in the value of printed matter. No matter how much newspaper advertising the advertiser may do, nearly 25 per cent of its effectiveness will be lost unless he has a circular or book of information to present to the inquirer.

On the other hand, there are few cases where circular and catalogue advertising will in themselves bring any adequate return.

The utilization of the catalogue to give the information, and the newspaper advertisement to make people send for it, produces the successful business-bringing combination.

HENRY C. SCHMIDT, head of the firm of J. C. Schmidt, Erfurt, Germany, died at Santa Cruz, Canary Islands, Dec. 26. The body was returned to Erfurt for burial. Mr. Schmidt had been in poor health for several years. He established the leading catalogue business of its kind in Europe and did a very large home and export trade.

CHICAGO.—Mr. E. A. Barnard, of W. W. Barnard & Co., has just returned from a two months' visit to his orange groves near Tampa, Fla. Jas. H. Munson, well known to the seed trade, formerly with Hiram Sibley & Co. and later with Jos. Breck & Sons, Boston, Mass., was found dead in his room the morning of Jan. 15. The coroner's verdict gives the cause of death as heart disease.

MR. GEORGE S. HASKELL who suffered an attack of heart trouble at Springfield last week is all right again. Newspaper accounts of the matter were much exaggerated.

MR. ALBERT DICKINSON suffered a severe concussion of the knee from a fall at the Board of Trade entrance and has been laid up for nearly a week.

HOW CAN YOU GET ALONG WITHOUT OUR TRADE DIRECTORY?

AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.



JOHNSON & STOKES, SEEDSMEN,
217 and 219 Market Street, PHILADELPHIA, PA.

TUBEROSES, GLADIOLI, FINE BULBS.

FLOWER SEEDS, NEW CROP IN.

Let us figure on your flower and garden seed orders. Fresh stock true to name.

W. W. Barnard & Co.,
Successors to HIRAM SIBLEY & CO., Chicago.
6 & 8 North Clark Street, CHICAGO.

GOOD SEEDS

Only can produce
Choice Vegetables and
Beautiful Flowers.
If you want the **BEST**
Direct from Headquarters,
Write TO-DAY, naming this paper, to

W. ATLEE BURPEE & CO.
PHILADELPHIA, PA.

For a **FREE** copy of their
Enlarged and Elegantly Illustrated
Complete Seed Book for 1891,
Well known for many years as

Burpee's Farm Annual

Every Live Farmer and Gardener should have it.

HENRY METTE,
Seed Grower and Merchant,
QUEDLINBURG, GERMANY,
(Established 1787.)

Wholesale Catalogue free on application. Special low prices given for large quantities.

USE FERRY'S SEEDS

BECAUSE THEY ARE
THE BEST.
D. M. FERRY & Co's
Illustrated, Descriptive and Priced
SEED ANNUAL
For 1891 will be mailed **FREE**
to all applicants, and to last season's
customers. It is better than ever.
Every person using *Garden,
Flower or Field Seeds,*
should send for it. Address
D. M. FERRY & CO.
DETROIT, MICH.
Largest Seedsmen in the world

G. J. MOFFATT,
Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.
Samples and prices on application. When writing
for prices, please state sizes and quantity wanted.

Vegetable Seeds for Market Gardeners.

Flower Seeds and Bulbs for Florists.

Our reputation among the critical Market Gardeners of this country, for having varieties and strains specially adapted to their wants, is second to none.

Our new Florists' and Market Gardeners' **WHOLESALE PRICE LIST** is the best and most complete list of its kind ever sent out. Write for it on your printed letterhead or enclosure business card to show you are entitled to it. Our Horticultural and Poultry Supply Circulars are complete and can be had for the asking.

KANSAS CITY.—Representatives of twenty of the largest nurseries in this section met in this city on the 6th inst. and organized the "Western Wholesale Nurserymen's Association," with officers as follows: H. T. Kelsey, of St. Joseph, president; R. H. Blair, of Kansas City, vice-president; Frank Worcester, of Fort Scott, Kan., secretary and treasurer; D. S. Lake of Shenandoah, Ia., A. A. Ambrose of Nevada, Mo., G. J. Carpenter of Fairbury, Neb., A. C. Griest of Lawrence, Kan., and W. P. Stark of Louisiana, Mo., executive committee. The association has been organized upon the same lines that the Nurserymen's Exchange at Rochester, N. Y., was founded. It is expected that the nurserymen of the west will unite with the new association. The objects are consolidation of interests and the maintenance of living prices for nursery stock. Membership will be confined to nurserymen who employ agents.

FIFTY-TWO ISSUES and one or more colored plates at one dollar. January is subscriber's month. Are the boys all hooked for one? A bound volume of the FLORIST helps the horticultural library.

Forcing Bulbs.

SPECIAL OFFER.

	Per 100	Per 500
5,000 Romans, double, light pink.....	\$15.00	\$2.10
5,000 " " single blue.....	12.00	1.50
5,000 " " double dark pink.....	12.00	1.50
5,000 " " single yellow (novelty).....	5.00	.50
5,000 Tulips, late mixed (Italian).....	7.50	.75
2,500 Narc. incomparable, double yellow	7.50	1.00
750 " " Orange Florida.....	white	20.00
750 " " and orange.....	20.00	2.50
750 " " Poeticus ornatus, sole white.....	18.00	2.25
3,000 " " Von Son, double.....	15.00	1.50
3,000 " " In splendid forcing mixture.....	15.00	2.00
3,000 Pol. Narc. Grand Prince, white, ext.....	15.00	2.50
1,000 " " Grand Soleil d'Or, yellow, extra.....	30.00	2.50
10,000 Fresia refracta alba, home grown	12.00	1.50
500 " " Leichlin major, home grown.....	extra.....	15.00
250 Lillium Candidum, home grown, ext.....	15.00	2.00
1,500 " " Harriet, 3 1/2 in. crown.....	40.00	7.00
1,500 " " Pomponium Verum, red.....	40.00	7.00
500 " " Tausculum, scarlet.....	12.00	1.50
5,000 Am. Zephyranthes candida, extra sizes.....	30.00	2.50
1,000 " " Zephyranthes roses, ext. sizes.....	30.00	4.00
15,000 Ranunculus, finest Sicilian mixed.....	5.00	.75
CRYSLAM PERISCUM, first size bulbs.....	Per 100 Per doz.	\$1.50 \$1.50
(true).....	Per 100 Per doz.	18.00 3.00
Tuberous Pearl, extra.....	Per 100 Per doz.	1.50 .30
LILY OF THE VALLEY, true Berlin		
Plugs 3 yrs. old, in prime condition, per		
original case of 2,500, \$24.00; per 10,000,		
\$80.00; per 1,000, \$10.00.....	1.50	.35
Terms Cash, without engagement.		

Address **J. A. DE VEER,**
18 Burling Slip, NEW YORK,
Importer and Dealer in
BULBS, SEEDS, PLANTS AND FLORISTS' SUPPLIES.
Catalogue free to the trade.

E. G. HILL & CO.,
RICHMOND, INDIANA.
Send for our January Trade List. A full line of the finest Novelties from prominent growers.
COMPLETE STOCK OF NEW STRAINS.
ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for florists.
E. G. HILL & CO., Richmond, Indiana.

Gorgeous Begonias

TUBEROUS ROOTED.

Now is the time to sow. The best strain in Europe. \$1.00 per packet, Double or single.
R. OWEN, Begonia Grower,
Maidenhed, England.

CUT SMILAX.
I make a specialty of Smilax, and am prepared to fill orders promptly. Price, 25 cents per string till May let. Quality A-1. **JOSEPH E. RONSALE,**
Telephone No. 15. 308 Garfield Ave., Salem, Ohio.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.
Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

SAN FRANCISCO, CAL.



ROSES

Seeds, Plants, Shrubs, Vines, Fruit & Ornamental Trees, Etc.

CATALOGUE FREE.

Over 150 pages illustrating and describing one of the largest and best assorted stocks of Seeds, Trees and Plants in the U. S. Best value for the money in our Tested Novelties and Special Low Priced Collections.

37 YEARS, 25 GREENHOUSES, 700 ACRES.

THE STORRS & HARRISON CO.,
Painesville, Ohio.

ROSES.

Roses bought now for \$40 per 1000, or \$35 if our selection. Will net the purchaser over 100 per cent. by Spring.

100,000 in 50 Leading Sorts READY NOW.

— ALSO THE CREAM OF —

Chrysanthemums and Bedding Plants.

Largest and most select stock in the South-West. Over THREE ACRES UNDER GLASS.

Send in your lists to be priced.

Wholesale and Descriptive Catalogue of 90 pages free to all.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.
Mention American Florist.

Box's Begonias.

BEST QUALITY IN EUROPE.

LOWEST PRICES EVER OFFERED.

SEEDS. For \$2.00 will mail you gratis good packet each of Single and Double form very best varieties; none to equal it; wins everywhere. Sold close on a million seeds of these in December.

TUBERS. Can ship till March, 100 superb Singles, assorted colors, for pots \$10; 50 choice assorted Doubles \$10. List and pamphlet mailed gratis on application. Send your orders promptly to

JOHN R. BOX,
(Established 60 years.) CROYDON, ENGLAND.
East Surrey Seed Warehouse.

Tuberous Begonias

OUR SPECIALTY.

Our stock is the largest in America, and contains over 200 varieties of named Doubles.

WE WILL SEND POSTPAID

12 named doubles, very best.....	\$12.00
12 " " choice.....	6.00
12 " " fine.....	6.00
12 " " good.....	3.00
Single, mixed.....	per 100 \$10.00
red and pink.....	4.00
small tubers.....	1.00
Double, mixed.....	12.50
small tubers, not flowered.....	10.00
Seed, double, hybridized from named.....	per 500 \$5.00
Seed, single, extra hybridized.....	per 1000 \$5.00

F. J. MEECH & SON,
CHARLEVOIX, MICH.

5,800 Spirea Japonica, fine clumps, per 100, \$3.50.
3,000 Genl. Jacq. Rose plants, 4 in. pots, per 100, \$5.00.
Colons Cuttings rooted, Verschaffeltii, per 100, \$5.00.
— Golden Buzzer & Golden Verschaffeltii, \$5.00.
JOHN RECK, Bridgeport, Conn.

STRONG AND HEALTHY ROSES

2-inch, best varieties, 100 or 1000.

MARGUERITES, PETUNIAS; ABUTILON
GOLDEN ELK; PRIMULA ORCONICA; AZALEA; CINERARIA Hyb.
RIDA; ENGLISH IVY;
GERMAN IVY.

CARNATIONS, Root & Cuttings Standard Vars.
CHRYSANTHEMUMS, Rooted Cuttings Standard Vars. Write for prices.

PROBST BROS. FLORAL CO.,

1017 Broadway, KANSAS CITY, MO.

Mention American Florist.

ROSES.

A very large stock of young Roses of the leading breeding and forcing varieties. Also large stock of named and unnamed varieties. The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

Dwarf Budded Roses.

The stock we offer this season is in unusually fine condition and includes all the leading varieties.

Annes de Diesbach, Mad. Gabriel Luizet,
Alfred Colomb, Mabel Morrison,
Baroness Rothschild, Magna Charta,
Baron de Bonstetten, Marie Bauman,
Boule de Neige, Merveille de Lyon,
Capt. Christy, Paul Neyron,
Fisher Holmes, Prince de Rohan,
Gen. Jacqueminot, Queen of Queens,
John Kopper, Ulrich Brunner,
Louis VanMoutte, White Baroness,
La France. \$1.00 per 100; \$11.00 per 1000.

A fine lot of Marechal Niels with canes 10 to 12 feet long, \$1.00 each.

HENRY A. DREER, 714 Chestnut St., Philadelphia.
Mention American Florist.

FLOWER SEED.

CHOICEST STRAINS FOR FLORISTS.
1891 trade list now ready, and mailed free on application.

AUGUST RÖLKER & SONS,

136 West 24th Street,
NEW YORK, STATION E.
Mention American Florist.

Foreign Grape Vines for Graperies.

Splendid one and two year old Vines, true to name, grown by an expert. List of varieties and prices mailed on application.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

IMPROVED GIANT VERENAS.
The largest and finest in America. Flowers over an inch in diameter, choice colors; extra fine. See ad in the FLORIST, Jan. 1 & 8. Every florist should sow of this seed. Trade list, 25c, 5 pks. 80c, 6 pks. 1.00. **JOHN F. RUFF, Shreveport, La.**



THE NEW ROSE

WABAN



This very valuable rose originated at the Waban Conservatories of E. M. Wood & Co., Natick, Mass. It is a *SPORT* from Catherine Mermet and identical with that variety in every characteristic, excepting color, which is a rich, deep, **BRIGHT PINK**; it sustains the same relation to its parent as Duchess of Albany does to LaFrance. The only objection to C. Mermet is its frequently pale, insipid color in cloudy weather; experience has shown that the **WABAN** retains its deep rich color in all kinds of weather; it will, without doubt, prove to be as valuable as **THE BRIDE** which is also a sport from the same magnificent variety.

IT HAS ALREADY RECEIVED THE **SILVER MEDAL**

of the Massachusetts Horticultural Society; of the Pennsylvania Horticultural Society, and **CERTIFICATE OF MERIT** from each of the Societies in this country and Canada where it has been shown.

Ready for Distribution on April 15th, 1891.

Orders booked now, will be filled in strict rotation.

Extra good plants from 2½-inch pots.

1 Plant,	-	-	-	\$ 1.00
12 Plants,	-	-	-	9.00
50 "	-	-	-	30.00
100 "	-	-	-	50.00
250 "	-	-	-	100.00
500 "	-	-	-	175.00
1000 "	-	-	-	300.00

From 4-inch pots.

1 Plant,	-	-	-	\$ 1.50
12 Plants,	-	-	-	15.00
25 "	-	-	-	25.00
50 "	-	-	-	40.00
100 "	-	-	-	75.00

The following Agents have been appointed to sell the Rose in the respective territories given below:

W. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th & Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

Chicago.

The gardener who was recently foreman for Nicholas Singler makes decided objection to the statement recently made regarding the failure of Mr. Singler's violet house. He claims he was in no way responsible for the failure, and that Mr. S. took full charge of that house himself.

Fisk & Ristow is the firm name which appears on the new sign over the door of 149 State street.

Among the new Chicago corporations reported by the Secretary of State on the 10th inst. was the Lorraine Park Company, to raise and prepare for market fruit and fruit trees and all kinds of shrubs and plants; capital stock, \$500,000; incorporators, Homer Cook, Edward L. Upton and Alfred E. Holt. Mr. Frederick Law Olmsted, the landscape engineer, has been in the city for some time working on general plans for the World's Columbian Exposition.

Messrs. M. A. Hunt and J. T. Temple spent a few hours in the city on Friday last. They were on their way home from the meeting of the Executive Committee of the S. A. F. at Toronto.

P. Blaumeiser & Son, of Niles Center, tried the Gontier this season and met with very gratifying success. The plants were grown cool in a carnation house.

Business is still very poor, and prices are low. A State street store has a sign out offering roses at 50 cents a dozen.

World's Fair matters are still hanging fire. Director-General Davis has just returned from his eastern trip.

The forthcoming entertainment of the Florist Club will be held Friday, Jan. 30, at Grand Army Hall, northwestern corner of Dearborn and Adams streets, beginning at 8 o'clock. There will be music, dancing and supper.

CARNATIONS.

Rooted Cuttings of the following vars. at \$1.00 per 100
HINZE'S WHITE, JEANNETTE, PETER HEN
DERSON, SNOWDOW, PORTIA, E. G. HILL,
GRACE WILDER, ANNA WEBB,
PRIDE OF KENNETH, DAWN.

CENTURY, \$2.00 per 100.
FRED CREIGHTON (New) Pink, \$4.00 per 100.
Double White, Double Variegated and Fringed
PETUNIAS, \$2.00 per 100.
GERANIUMS, all the finest varieties in mixture
\$2.00 per 100; to name, \$4.00 per 100.

ROOTED CUTTINGS of the leading varieties of forcing
ROSES. Prices on application.
JAMES HOBAN, Florist, Bridgeport, Conn.
Mention American Florist.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure
white sport of Chester Pride for the first time
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Flower, Orange Blossom, Beauty of Oxford, Emily Louise Taplin, and others are
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* * THE QUEEN OF WHITE CARNATIONS! * *

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HUGH HOLLAND.

URBANA, O.—Charles H. Murphy, the florist and nurseryman, died on the 13th at his home in this city, aged 76 years. He was born in Scotland, came to America when 21 years of age, spent two or twelve years in Cincinnati, and took up his residence in this city in 1849, where he has since remained. He was succeeded in business last summer by his sons R. H. and Walter, under the firm name of C. H. Murphy's Sons.



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THE February issue (1891) of THE AMERICAN GARDEN will be especially devoted to Orchids. It will be racy, artistic, instructive, correct. For the first time in this country the question "What is an Orchid?" will be answered. Among the notable features of the issue will be the following articles and discussions:

A GENERAL VIEW OF THE ORCHID FAMILY.
THE BEST NEW ORCHIDS AT THE ROYAL GARDENS, KEW.
ORCHIDS AT HOME IN BRAZIL.
ORCHIDS FOR BEGINNERS.

CYPRIPEDIUMS.
METHODS OF CROSSING ORCHIDS.
ORCHIDS IN CALIFORNIA.
CONSTRUCTION OF ORCHID HOUSES AND TREATMENT OF ORCHID PESTS.

The number will also contain an account of the Government Seed Bureau, by the ex-Chief of the Division. Every gardener, and especially every seedsman, should read this article. The number will be beautifully illustrated.

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Saddle River, N. J.

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2 "	2 70	1500	4 00
2 1/2 "	3 00	1200	3 60
3 "	3 20	1000	3 20
4 "	4 20	720	3 00
3 1/2 "	6 30	575	3 60
4 "	7 30	407	3 00

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TWO PHOTOGRAPHS showing different displays of the recent exhibition at Utica, N. Y., have been sent us by Mr. G. W. Chaffield. They indicate that the exhibition was most profitable, especially for a first attempt.

A. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

The following articles not being admissible in the reading columns we present them to the readers of the Florist in this form, wishing to verify the statements already made by us.

A. H. HEWS & CO.

TO THE EDITOR OF "THE AMERICAN FLORIST":

In the interest of justice and fair play, I would like you to insert the following, relative to the award on flower pots. I am a potter by trade, and consider myself an expert. I examined the pots thoroughly as exhibited by Hewes & Co. and Whilldin & Co., and under oath I wish to make the statement that I consider the statement made by Mr. Hewes relative to the sizing of pots after they were made, by the parties receiving the award, a correct one.

G. W. MILLER, 1748 N. Halsted Street, Chicago.

GEORGE W. MILLER, of Chicago, a florist, personally well known to me, Nicholas Coones, a Notary Public for Cook County in the State of Illinois, personally appeared before me and on his oath says that he personally examined the pots above mentioned and considers the above statement hereunto annexed to be in his judgment correct.

Subscribed and sworn to this 15th December, 1890.

NICHOLAS COONES, NOTARY PUBLIC.

I, W. P. BROWN, of Cambridge, State of Mass., do under oath make the following statement: I have been concerned with the manufacture of Flower Pots for the past seventeen years, and consider myself an expert. I thoroughly examined the pots that received the award at the late exhibit of the Society of American Florists and hereby affirm that the statement made by Mr. Hewes, relative to the sizing of pots after they were made, is a correct one.

WM. P. BROWN.

CAMBRIDGE, MIDDLESEX, SS. Dec. 27, 1890.

Then personally appeared before me, the above named William P. Brown, and took oath that the above statement made by him is true.

MILTON L. WALTON, JUSTICE OF THE PEACE.

CAMBRIDGE, DEC. 27, 1890.—I hereby certify that I have known William P. Brown for some 15 years, and believe him to be a man who would not make a false statement.

MILTON L. WALTON.

A. H. HEWS & CO., North Cambridge, Mass.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Aboardships, but we are the first to touch Unknown Seas."

Vol. VI.

CHICAGO AND NEW YORK, JANUARY 29, 1891.

No. 139.

THE AMERICAN FLORIST

Copyright, 1891, by American Florist Company.
Entered as Second Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

54 La Salle Street, CHICAGO.

Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

Florists' Hall Association.

Insures greenhouses against damage by hail.
JOHN G. ESLER, Secretary, Saddle River, N. J.

Florists' Protective Association.

Gives information to members regarding the financial standing and business integrity of those in the trade.
H. B. BEATTY, Sec'y, Oil City, Pa.

American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LINDSAY, Chestnut Hill, Philadelphia, Pa., secretary.

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THE PROPRIETORS of the Madison Square Garden, New York City are making arrangements to give a competitive exhibition of chrysanthemums next fall. They send us a printed list of subscriptions toward premiums, the amount so far subscribed footing up a little over \$2,000. Among the subscribers are some of the wealthiest citizens of New York.

Notes From Canada.

BY WM. FALCONER

Toronto is a beautiful city with every evidence of thrift, industry and progress. It is governed by a mayor and thirty-nine aldermen, and has the reputation of having the purest and most exemplary government of any city on the continent, nevertheless its rulers are facetiously known as "The Forty Thieves." The city fathers are heartily in favor of park and garden decoration and are exerting themselves in carrying out the beautification of the city grounds, not only in public places but around the several government institutions. And they have already acquired extensive tracts of land for park purposes and pride themselves upon the fact that, in proportion to their population, they have a greater acreage of park lands than has any other city in the country. And still they cry for more. But this cry is for park and garden spaces within the city in its most thickly settled parts. They believe, and surely we heartily concur with them, that now is the time to acquire these central breathing garden spots, and not after the land doubles or quadruples in value and sanitary reasons shall compel its purchase by the park department no matter at what price.

The city greenhouses, rather limited in extent, are filled with a miscellaneous assortment of plants, winter as well as summer blooming, and many bedding plants. Calanthes and cypripediums were in flower in an orchid house; a Marechal Niel rose was in full bloom as a trellis vine, and epacris, coronillas, brachysemas, eupatoriums and other boyhood's favorites reminded us of the gay conservatories of England.

A big and bushy plant of Pandanus Veitchii was coveted by some of us who estimated its worth by the amount of cuttings it would yield.

My attention was directed to a large number of "hybrid" echeverias in one of the greenhouses. Evidently they were crosses between Cotyledon gibbiflora metallica and C. secunda glauca major or other vigorous purple and green or glaucous-green kinds, and displayed a large variety in form and color of foliage.

Sempervivum calcareum was also grown in quantity and under the name of S. Californicum. The name Californicum is wrong, there is no such a name among sempervivums, it is simply a catalogue corruption of calcaureum. Furthermore, this species is a native of the calcareous mountains in the southwest of France; and no sempervivum of any kind is indigenous to California. Sereno Watson in his "Botany of California" mentions the common European houseleek, S. tectorum, as "often found half wild about old houses," nevertheless it is not native to the country.

Mr. Dunlop's rose growing establishment is near the out edge of the city and consists of several hip-roofed greenhouses over 100 feet long, constructed upon the newest and most approved plan and heated by steam. To us all this was a general surprise. Not only were we astonished to find such an extensive and well appointed establishment in Toronto, but the cleanliness, thrift, vigor and general excellence of the roses were not surpassed by anything in the States, and this was publicly emphasized by Mr. J. Dean and Mr. J. N. May at the banquet in the evening.

His last built house is 140 feet long, hip-roofed and glazed with double-thick, French glass, 16x16 inches square. In glazing the glass is butted together, not overlapped as is the case generally, and held in place by battens screwed down over the sash bars. The glass is not bedded in putty. When the panes are perfectly square, say 16x16, there are better chances to get perfectly matched tight fitting edges than would be the case were the panes 12x16, or any other unequal size. These roofs I am assured are almost perfectly water tight, that is, while they may leak a few drops at the beginning of a shower of rain, after a few minutes the drip stops altogether; and they have two other advantages, namely, there is no darkening of the roof caused by dirt gathering at the laps, and never any drip inside from condensed moisture on the glass, the water runs down the glass surface without a check as it would meet in the case of lapped glass. When a pane of glass gets broken the battens are unfastened and the broken pane knocked out and the other lower panes are then pushed up to fill the vacancy and the new pane introduced at the bottom and the battens screwed down again. There is nothing new about this system of glazing, but I must admit that I have always been a little prejudiced against it. But here the fact stands boldly out, however, that it is both economical and effectual, and as Mr. Dunlop's older greenhouses are also glazed in this same way, if he didn't believe it to be the best of all methods of glazing greenhouses he certainly would not have adopted it again in his new houses.

His sash bars are of clear white pine and grooved to carry off drip, and under the ventilators he also has grooved troughs to carry off the drip.

His benches are in regulation order, that is, there is a front and back bench raised well up to the glass, and a wide sloping bench in the center with a single plank running lengthwise in the middle to walk upon. The bottom of the benches are of tamarack (American larch) which is said to be very durable under such circumstances; and the soil is about four inches deep upon the benches.

The ventilators are worked by patent

gear. A cool temperature, probably 55° or thereabout is maintained, and this is apparent in the stout stocky nature of the plants and their fine foliage.

Tobacco stems are strewn along the pathways, and by a very simple arrangement a movable iron pipe ½ inch in diameter by about a foot long is affixed to the steam pipes here and there along the pathways for steaming tobacco stems in the interest of greenfly. A common barrel is filled with tobacco stems and through a small hole near the bottom the steam jet is introduced and the steam turned on for a short time. This is done in the morning rather than in the afternoon, for it is not well that the foliage should be wet when night sets in. I observed that he had also a zinc vessel about as big as a barrel for steaming the tobacco stems in.

Dunlop's Golden Perle Rose. Some beautiful flowers of a golden yellow flowered sport of Perle were exhibited in the Executive Committee room by Mr. Dunlop, and they commanded general admiration. We also saw the plants growing and blooming in Mr. D.'s greenhouses, and they seemed to be perfectly "fixed" in character and as free in growth and flowering as the typical Perles.

Sunset Rose.—Mr. S. Tidy, the Yonge street florist, says: We regard Sunset as one of the finest roses in the market; our customers are very fond of it, in fact, we can not get enough of it.

Mr. E. G. Hill brought bunches of his new carnations from Richmond, Indiana. They were large, fine blossoms and much admired. Mrs. Harrison, white, pencilled with pink; Indiana, blush streaked with pink; Annie Wiegand, blush-pink; and George Hancock, Fred Dornier, H. E. Chitty and Edwin Lonsdale, all described in the FLORIST January 15, page 360, were the most admired. And I am glad to find so eminent an authority as Mr. Hill concur with me in my experience that in order to have good carnations we have got to keep up new varieties. Varieties soon run out. This is my experience anyway. Take E. G. Hill which three years ago was one of the finest carnations I ever grew, large, massive and prolific; to-day it is hardly worth any thing. Charles Henderson too has gone back on me and Mrs. Marshall has lost its vigor. On the other hand I never had *Petunia* as fine as it is with me this year. Mr. Fisher, of Buffalo, looks upon Silver Spray as the gem of the race. Hurry up John with your big four-inch fellows. In well grown specimens of Gibbonsi one may even get that now, but it's a late blooming, one-crop carnation and I don't think can be grown with profit by the florist.

Callicarpa purpurea is a hardly shrub of neat, low growth, and whose branches in the fall are closely covered with clusters of small, glossy violet-blue berries that hang on for many weeks and are strikingly attractive. Friend Temple, of Davenport, Iowa, tells me he bought some of these *callicarpas* for 25¢ or thereabout a piece and grew them on through the summer in pots. In the fall he had a *chrysanthemum* show on his own account, and he arranged these brilliant berried *callicarpas*, scarlet and purple *salvias* and other seasonably handsome plants among his *chrysanthemums*, and the effect was both telling and pleasing. "And I sold everything," he told me, "the *callicarpa* bushes at \$5 a piece. It's so, and let me tell you those *callicarpa* bushes were so handsome I could hardly bear the idea of parting with them even at that price!"

Shrubby veronicas (*V. salicifolia* and its varieties) were other plants Mr. Temple had in good bloom at *chrysanthemum* time and sold "like hot cakes." They are easily raised and easily grown, but they are not hardy; they can be safely wintered, however, in a deep cold pit or frame, but it is well to keep up a young stock of them from cuttings every year.

Now, while it would not pay our wholesale flower growers to devote their attention to this sort of thing, there is money in it to the country florist who runs a plant and flower business and does a local trade. Get up beautiful plants, well grown and stocky, and present them to the people in an attractive form, and you will get rid of them at satisfactory rates. The average people don't know plants and don't know what they want, if, indeed, they want anything, and it is just here that your mission comes in—provide you the supply, and if the supply is appropriate and attractive it will create the demand.

Begonia incarnata grandiflora. Mr. Palmer, of Buffalo, grows this variety and tells me, in face of it, the typical *incarnata* is not worth growing.



Carnation Blooms Out.

I was much interested in a perusal of Mr. H. E. Chitty's letter in your issue for January 8, as to the number of flowers he had cut from a certain number of plants of his favorite variety *Lamborn* during the months of October, November and December. Your correspondent appears to be pleased with the quantity of blooms he has been able to cut, and more than satisfied with the pecuniary result. I am not sure whether he considers his crop of flowers an extra large one, but from the tenor of his letter I would imagine he does. Perhaps it may not be altogether out of place for me to give you my own statistics from a batch of plants less than half as numerous as Mr. Chitty's.

I have this winter devoted a new house 100x20 feet to carnations, with solid bed down the center and side benches. This house holds 1,700 plants, from 1,500 of which I have been cutting bloom since the beginning of October. I find by referring to my note book and sales returns that I have shipped the following blooms: during October 5,520, November 8,370, December 10,790, or a total of 24,680 flowers. Three fourths of these have been long stemmed. In addition to the foregoing numbers I have used a considerable quantity of carnations for mixing with small assortments of other flowers, and of these latter I have kept no tabulated account. I am justified therefore in putting my total crop at 25,000 flowers, and in doing this I am aware that I am under-estimating rather than over-reaching the figures. During Christmas week alone I cut 4,000 blooms which were all long stemmed with the exception of 350 white ones. I expect to be able to cut quite 9,000 additional blooms during the current month. I grow all the leading market varieties, some of which are the reverse of late blooming; did I but restrict myself to such a white variety as say Mrs. Fisher, I would be able to cut an

average of quite 500 more flowers per week. As to the quality of my blooms comparisons are said to be odious, but "seeing is believing," and I am perfectly satisfied that an inspection of my carnation house will prove to any one that it will compare favorably with any in New England, or I would refer them to Welch Bros., Boston. Mr. Chitty makes a good deal of the fact that in three months he cut "within a mere shade" of 10,000 blooms from 3,500 plants. I ought therefore to feel satisfied at having been able to cut over 25,000 flowers from 1,500 plants in the same time.

To put the matter in a nutshell, Mr. Chitty's plants have borne at the rate of something less than one bloom per month each, while my own have averaged considerably over five; had your correspondent's plants been as floriferous as mine he would have been able to cut not the rather insignificant number he tells us of, but "within a mere shade" of 60,000. If, however, he is satisfied—as his letter would seem to show—I have no reasons for feeling at all despondent.

WILLIAM NICHOLSON.

Framingham, Mass., Jan. 17, '91.

Hinze's White and Wilder.

In the number of your journal for January 8 appeared a very interesting article from Mr. Chitty, in which he congratulates himself upon having abandoned the long tried and well known old carnation *Hinze's White* in favor of *Lamborn*. If Messrs. Chitty, May and Traig could see our *Hinze's* and *Wilder's* we are satisfied they would have some doubt as to the wisdom of his action.

We have an old rattle-trap of a house twelve years old, poorly built and heated, and about ready to fall down. It is 25x100 and contains 3,100 plants of *Wilder's* and *Hinze's* which were planted the first week in October last. The varieties are about equal in number. From October 1 to January 1, three months, we picked 25,000 buds, a small majority were *Wilder's* and a very large majority were long stems, short stems being the exception. Several hundred plants, counted carefully to-day, gives us an average of eighteen flowers on the *Hinze's* *White* and eight on the *Wilder's*. Some of the *Wilder's* have twenty-five buds on them, and the *Hinze's* as high as fifty. While these last figures are exceptions, a very conservative estimate by disinterested florists who have inspected the plants, is that there are anywhere from 40,000 to 75,000 buds in sight today on the 3,100 plants. We would be very happy to have the three above named gentlemen estimate the number of buds in the house. We have hundreds of plants with from 30 to 70 flowers and buds, and would like some one in the trade who is an authority on carnations and a correspondent of the A. F. to see these plants. Mr. C. finds fault with *Hinze's* because too much time elapses between crops. We do not agree with him here. This house was planted in the same manner, with the same kind of stock in September 1889, and produced from 2,000 to 3,000 buds per week until April. But up to that date, six months, we had a record of 50,000 buds. We kept no record thereafter, but they bloomed profusely all summer, and we supplied not less than 10,000 carnations per month to florists in Philadelphia until October, when the house was replanted as it was one year ago and it is doing to-day just as it has been doing in one year. Out of 40,000 cuttings put in since



CARNATION DAYBREAK.

December 1, 36,000 are well rooted and a majority of them sold.

We do not get such prices as Mr. C. does or we would also build iron houses. Our carnations are all wholesaled excepting about 15 per cent and since a majority of the blooms are Wilders, which average nearly three cents, and the Hinze's two cents, not to forget our 1,000 at Christmas for more than three cents, a few hundred Wilders for four cents and a few we caught on to, like Mr. Chitty did, at 75 cents per dozen, we are satisfied our pinks have averaged us a fraction over \$2 per hundred, or between \$500 and \$600, a pretty good showing for \$18 worth of coal consumed and a very shaky house, which by the way we will have photographed and a copy forwarded to you.

To date the Wilders have been the most prolific bloomers with all the indications in favor of Hinze's for the near future, but if this year is a repetition of last year the Grace Wilders will get their record up

later on. We have been growing carnations this way for years, but were not aware we were such successful growers until we saw Mr. C.'s figures. Our ideal carnation is not that pictured by Mr. Thorpe's fertile imagination a short time ago. We do not hanker for dollar carnations. Imagine the energy exhausted in producing the carnations Mr. Thorpe dreams of!

In conclusion we would say to all inexperienced beginners in our craft, do not catch on to too many new things and never discard an old one until you have grown the new one on trial on a small scale, and a satisfactory trial at that. We know a few old beginners that this is not bad advice to. We bought our experience when green in the trade to the tune of \$500 per year, and often discovered our most fatal errors were in seeking after new things and discarding old ones unjustly condemned through ignorance and insufficient trial. As long as Hinze's White will give us 2,000 blooms per week

from 3,000 plants and its keeping qualities are such that we can hold them for a long time for emergencies and then sell them to the satisfaction of the purchaser, even though they travel 1,500 miles by express, we do not feel satisfied to displace such a faithful long tried old servant for a stranger.

DEWITT BROS.
Bristol, Pa.

Carnation "Daybreak."

The introducers, Messrs. W. P. Simmons & Co., describe it as follows: Flowers are of largest size, very double and full in the center, petals thick and heavy, and flowers last well. The color is a beautiful and delicate flesh with no salmon shading and is entirely distinct from Grace Wilder or any other variety now in cultivation.

The Lamborn Carnation.

Ed. AM. FLORIST.—Mr. Grove P. Rawson in the *Florist* for January 5th, inquires about the keeping qualities of carnation Lamborn, which of course is a very important matter, especially in cases where the grower depends entirely upon his shipping trade. The few hundreds of this variety that I have shipped were sent to Messrs Hammond & Hunter and John Young of New York, and I have not heard anything from these gentlemen either one way or the other about the flowers so shipped. Perhaps they can give some information on the subject. The bunch of this variety which I now send to your office by express to day was gathered with a lot more last Friday, January 16th and have been in my flower cellar until now, and I find them much improved by being in the cellar a few days. I hope the bunch sent will arrive in such condition as will enable you to form an opinion of both the keeping and shipping qualities of this variety. H. E. CHITTY, Paterson, N. J.

[The flowers reached us on the 22nd, in splendid condition, and still very fragrant.—Ed.]

Hinze's White.

While the new varieties of carnations are many of them possessed of merit, yet they must prove worthy indeed to be able to take the places entirely of our old standard sorts. Mr. Chitty writes of the Lamborn, an excellent new carnation, yet it is a question whether in the hands of the average grower it would prove so superior to Hinze's White as to warrant us in throwing out the latter entirely as Mr. C. has done. The Lamborn is unquestionably a fine plant; flower large, a very clear white and prolific, but as I have seen it grown it lacks the apparent strength of the Hinze's. In a house here at Bristol, De Witt Bros. are growing Hinze's White to perfection. The house is planted with this white and Wilder and contains about 3,100 plants, the Hinzes I think being in the majority. They are in solid beds and on side benches. From the time they were brought in, October 1, the growers have been cutting immense crops of flowers from them, but kept no record up to November 25th; from that date to December 25, one month, the house yielded 7,000 cut blooms as registered, though it is supposed that many small cuts for retail trade were not put down at all. The plants at this time show no loss of buds, the Hinze's bearing from fifteen to fifty buds each; one grand plant that I examined had fifty-two apparent buds, though a number had already been cut off. The flowers of the

Hinze's White, when fully matured, are of good white color and the majority of them will measure two and one-half inches in diameter. The temperature on these plants is never a high one, and not having been forced they are in perfect health and from all appearances will be likely to keep up their bloom all winter. The Portia also does well with these growers, one plant shown me in another house containing seventy-three apparent buds.

HARRY CHAMBERS.

Chicago Carnation Notes.

J. F. Klimmer of Oak Park, says Silver Spray is by far the best white carnation grown around Chicago. He has seen it doing well in all kinds of soil. He had to give up Hinze's White as he could not grow it successfully. His soil is a light black sandy one.

He considers Tidal Wave the best colored carnation he has ever grown. He grows Buttercup, which grows and blooms quite well with him, though an occasional plant has a mysterious way of going back on him at times. He likes J. R. Freeman. With him it is a large flower and opens something like Tidal Wave. He tried Golden Gate this season. It has grown well but the blooms burst and it hasn't blossomed free enough to be very profitable.

He has tried Lamborn and Swayne but will throw them both out as he can't get any satisfaction from them.

Century pays him well for an early carnation. Christmas does well and promises to be better than Grace Wilder later in the season. He finds that Grace Wilder pays him well before the holidays but after that he prefers Christmas. About February 1 he will throw out his plants of Century and Grace Wilder as they don't pay him for the space occupied after that date.

P. Blaumeiser & Son of Niles Center consider Silver Spray the best white carnation taking everything into consideration. They tried Lamborn this season and like it. It is dwarfier in growth than Silver Spray and has done very well with them. They can't do anything with Grace Wilder, but are favorably impressed with Tidal Wave.

Mr. Boettner of E. Weinhoeber & Co says he likes Silver Spray but that Hinze's White is by far the best white carnation with them. This season Hinze's White came into bloom the first of any of their carnations and has continued steadily in bloom ever since. This variety is not a cropper with them. He says they cut more and better flowers from Hinze's White than from Silver Spray. They grow no other whites than the two named.

Grace Wilder is their most profitable carnation. With them it blooms exceedingly free. From a given space devoted to Grace Wilder they have cut fully twice as many flowers as from any other carnation occupying the same amount of space. Their soil is rather heavy.

They grow Portia and Garfield, but Portia gives rather small flowers, and Garfield comes into flower too late to be satisfactory. They have never yet had Garfield in full flower till February.

They grow Sport or Emperor of Morocco for a dark one, and they consider this the best of the crimson.

Best Carnations.

A. S. L. on page 360 of AMERICAN FLORIST asks which are the best four or

six varieties for a new beginner. If he confines himself to four varieties we think he will succeed better. For all purposes, combining the distinct colors, abundant flowers, long stems and easy culture, Hinze's White, Grace Wilder, Anna Webb and Portia have always succeeded the best under my observation.

Bristol, Pa.

THOMAS BREWER.



Best Bronze and Pink Sorts.

The following in reply to the query by A. E.:

Six good pink chrysanthemums for any purpose, covering the season: M. E. Nichols, Ada Spaulding, Miss M. Wheeler, Lilian B. Bird, Mrs. Hicks Arnold, John Lane.

Nine good bronze, covering the season: Wm. Robinson (Magicienne), Source d'Or, Mrs. Bowen, Coronet, W. W. Coles, G. F. Moseman, M. Ed. Andre, Carry Denny, Mrs. A. C. Burpee.

Standard chrysanthemums are plants having clean stems not less than two feet in height before the heads of the plants are formed.

JOHN THORPE.

I note enquiry for six best bronze and pink chrysanthemums for florists' use and would suggest the following, being all free and large flowers, of strong and healthy habit:

PINK.		BRONZE.	
†Mrs. D. D. Farson	†Mrs. H. A. Pennock		
*Ada Spaulding	Mrs. J. J. Baylis		
Mrs. I. Clark	E. G. Hill		
*Royal Aquarium	†W. W. Coles		
†J. R. Pitcher	Mrs. A. C. Burpee		
Violet Rose.	*S. B. Dana		
†Late. *Early.			

T. H. SPAULDING.

"The Chrysanthal Etymon" Again.

Some time since there appeared in these columns an article signed "Connecticut" in which the writer asserts that the dominant root element of chrysanthemum is taken from a Greek word meaning transverse. I do not know what Greek word he refers to, but I do know the word that is usually accepted viz. *chrysos*-yellow. In regard to the statement of the writer of the article referred to that the Greeks applied the name chrysanthemum to certain plants having a crossway arrangement, I can only say, that in consulting Dioscorides, the oldest Greek at hand, I find the name applied to one of the composite, to a plant having a very close resemblance to our chrysanthemum.

J. F. COVELL.

Buffalo, N. Y., Jan. 19, 1891.

Floriculture in the South.

The queries in January 8 issue in regard to southern floriculture could be more satisfactorily answered if the southern florist had indicated in which state he lives, as the climate differs a great deal according to locality; however, I will briefly give my views on the subject suitable to this latitude.

In regard to the construction of the houses I prefer the full span roofed, the width and height to be governed by the stock to be raised in them; it is not so necessary here to build them as light as they are north, because we usually have plenty of sunshine during winter, still for roses I of course prefer them light. The ventilators ought to run the full length of the house, and if possible on both sides of the ridge, about three feet deep, build the houses so they slope to the east and west, at least I find that our houses so constructed produce the best stock; make the pitch about 45 degrees. In regard to heating I dare hardly venture to give advice for fear of being contradicted on this important question, but as I have had experience with both steam overhead and underneath, and hot water in large and small pipes, I do not hesitate in recommending the hot water system underneath in 2-inch pipes under pressure.

Carnations cannot be grown at a profit if you are to buy the plants from the north, because if they are shipped with clumps the express charge is too exorbitant, and if the soil is removed and they have been in transit several days they will never recuperate. In this locality carnations can not be grown outdoors on account of the heat and dry atmosphere; while I have seen them successfully grown in the open ground in Atlanta, still they were not to be compared with those grown in New Jersey or elsewhere. By keeping them in pots during summer and planted in frames during September and shaded with lath frames, fair success may be had, but I have abandoned their cultivation. Violets are extensively grown around here in all private yards and need no protection, but to secure nice flowers on long stems they must be planted in frames, as well as pansies, daisies, etc.

Cut roses are especially well suited. I plant them on raised benches in the beginning of July, shading the glass, which by the way is done on all the houses, and keeping the paths constantly wet, consequently plank walks are preferable for tidiness; sake; syringe morning and evening, and guard against the leaves being scorched. I have never tried to plant roses in the open ground and cover the space in the fall, I don't think it advisable because the red spiders are apt to appear, while under glass they can be kept down by frequent syringing. Azaleas, camellias, evans and such are better kept in an open frame house, shaded by lath and protected during winter by cloth; in such houses a flue can be used to advantage in case of severe weather.

C. A. D.

Macon, Ga., Jan. 12.

Aralias.

These include many very handsome foliage plants of moderate growth, several species of which may be classed among available plants for decorative work.

The aralias are a widely spread family, representatives being found in many parts of the globe, and in consequence we find widely different treatment necessary for the various species that are used for ornamentation, at least in regard to the degree of heat required, and also in methods of propagation.

In the matter of soil most of the species are not specially fastidious, providing it is not of too heavy a character, and therefore a moderately rich, sandy mixture is found to give a good result in most cases.

As the species to which reference will be made are with one or two exceptions of



FANCY CALADIUM.

comparatively dwarf habit, it will be found best to renew the stock from time to time in order that nicely furnished young plants may be had, say in 4 to 6-inch pots, these being the most useful sizes for window boxes and table decoration.

Probably the most useful, and certainly one of the most elegant, is *A. Veitchii*, a South Sea species now well known in commerce. It is of slender habit and bears quite large, though finely divided digitate leaves, the latter being dark green on the upper side and dull red beneath.

Unfortunately *A. Veitchii* is a very slow rooter, and grafting is usually resorted to as a means of increase. *A. reticulata* being considered the best stock to use for this purpose, though if the latter species is not at hand *A. Guilfoylei* will answer very well.

Another handsome species of somewhat similar characteristics to *A. Veitchii* is *A. elegantissima*, which also has digitate leaves and very narrow leaflets, the latter being brownish green in color with a light colored midrib. This species is also best increased by means of grafting, and when grafted low on the stock makes a very graceful little plant, though possibly not able to endure quite such hard usage as the first named.

A. Guilfoylei is another warm house species from the same quarter of the globe as the preceding, viz.: the South Sea Islands, but is a much stronger grower. The leaves of *A. Guilfoylei* are pinnate, the leaflets being quite broad and margined with cream color.

This is a decidedly handsome plant and of rapid growth, and has the additional qualification of being quite easy to increase by means of cuttings, single eyes with a leaf attached usually rooting in a few weeks if placed in a propagating frame.

A. filicifolia is also a strong grower,

and in habit resembles the last mentioned, but its pinnate leaves are without variegation, being light green in color and the leaflets much cut. This may also be readily increased by cuttings, and when nicely grown is a very pretty and serviceable plant.

A. leptophylla is another of the older species that deserves a place, its compound leaves having long narrow leaflets that are more or less pendent.

The leaves of this species are dark green and the stems more or less mottled, the habit of the plant being naturally graceful, and though not extensively grown, yet deserves more general recognition. Among the cool house sorts the very well known and popular *A. Sieboldii* stands first, and deservedly too, this being one of the most satisfactory house plants, and apparently capable of withstanding as much hardship as an aspidistra.

The best means of propagating this species is by seeds, these being freely produced on an old plant, and as freely germinated, and seedlings make more shapely plants than those secured from cuttings.

Some of the variegated forms of *A. Sieboldii* are also very handsome and valuable for decorating, as they appear to be almost as tough as the type.

A. papyrifera, the plant from which the so-called "rice paper" of the Chinese is made (the pith being used for this purpose) is also a useful plant, though the foliage is not so tough and hard as that of *A. Sieboldii*, still *A. papyrifera* finds a good opening in foliage beds during the summer, where its noble foliage makes a good contrast with finer leaved plants.

This species is perhaps the easiest of all to increase, not only by means of seeds, but also by root cuttings, the latter forming plants as readily as bouvardias if put in sandy soil and placed in a moderately warm house.

Both of the last mentioned species are

also known under the generic name *Fatsia*, and may perhaps be more easily recognized by some reader under that title.

The few examples to which attention has been called in these notes do not by any means exhaust the list, there being a number of more recent introductions that also possess great merit, for instance, *A. Chabrierii*, *A. Kerchovei*, *A. Victoria* and others, but these are not as readily procured as those formerly referred to and possibly have no greater decorative value to the ordinary florist. W. H. TAPLIN.

Fancy Caladiums.

These are very useful indeed for conservatory decoration and when judiciously placed among small palms and ferns are very effective.

The illustration is from a plant of the variety *Bellini* in a 4-inch pot, only six weeks after the starting of the tuber. It was grown at the greenhouses at Garfield Park, Chicago. The tuber was three years old.

New York Floral Notes.

White lilacs have appeared, are very expensive, and are very beautiful. They charge \$3.00 for a small bunch of these at the best floral shops on Fifth avenue and Broadway. Tulips have also come in of two colors, the common yellow tulip and the Cottage Maid, which is always a favorite, especially with young ladies.

Mrs. Odgen Mills gave a ball at her residence on the 12th and Mr. Hall, of S. J. Burnham & Co., arranged the decoration, which was greatly admired. The pictures were all removed from the parlors, and plaques were inserted in their places, which were round and square, and were composed of adiantum and choice ferns with cattleyas placed upon them so as to show the various colors of these flowers. These orchids were a remarkable display of cattleyas, and their arrangement was very fine. The favors were fans brought from Europe last summer by Mrs. Mills herself. There were two hundred bunches of violets, the seventy ladies invited. These were placed on trays for the ladies to help themselves. Mr. Hall also used a considerable number of the Laing rose.

A few Dutch hyacinths have appeared. These are a very handsome variety, and of a rich purple color. They are extremely handsome mixed with the daffodils that are now freely used by all the florists, and were seen in great beauty at the second Patriarchs' ball, when the Kinder Co. made fine decoration at Delmonico's. The Patriarchs' ball has this winter shown many Spring flowers, which the ladies attending have seemed to prefer. In fact, they have seemed to be Mr. Merritt's craze.

A new basket called the four-leaf clover basket, which usually appears on a pedestal, has been ordered freely of the Hanft Bros. This basket has had a great run, and is certainly a very fine ornament if it is properly arranged to show the shape of the basket. Mr. Hanft had an order for five of these baskets which cost \$100 each, but they take a great many flowers to fill them, and these must all be very choice. The basket is painted a remarkable blue, and is well suited to show off the colors of fine flowers. This firm got up the decoration for the Arion Club House ball which occurred on Saturday evening last. The lanterns on the prominent chandeliers were twined with fans, and flowers were interlaced throughout the garlands which bound these to-

gether. Considerable Florida moss was used in this decoration.

Alexander McConnell is preparing the decorations for the Old Guard ball, which will take place on the 22d inst. at the Metropolitan Opera House. This will be decidedly a green decoration, as there will be a great deal of laurel used, and numberless palms. There will be a forest scene on each side of the stage, and near the proscenium boxes will be cannon covered with low plants. The only flowers used will be bunches of American Beauty roses at each side of the stage, which will be four feet in height.

C. L. Doran made the decoration at Mrs. William T. Draper's dinner, which was a large basket of adiantums and American Beauty roses, and a large one of these flowers for each lady. He made a boutonniere, which was composed entirely of carnations, placed seven in a bunch, and put very close together without any foliage. This is a very pretty way of dressing carnations for boutonnieres. At Mrs. Capt. Cook's reception on Monday afternoon, there were two large baskets of American Beauty roses placed on pedestals, and the mirror in the house, which is on the side of the parlors, was decorated with lilies and roses.

Jan. 17. F. A. BENSON.

Specimen Plant of Candytuft.

The accompanying illustration is from a photograph sent us by Mr. Emil Glauber, Montclair, Colo., the grower of the plant shown. He says the spikes measured from four to seven inches in length. The plant shown is certainly very effective as a pot plant, and shows the possibilities in this direction with this plant, so useful at certain seasons for cut flowers, but rarely grown as a pot plant.

New York.

Business better and prospects much brighter. Flowers plentiful.

The Florist Club has secured the Lenox Ice-cream, Madison Ave. and 59th St., for the purpose of giving a flower show the week commencing April 7. A very influential committee has been appointed and great interest is being taken by all concerned. The building is new and especially adapted for exhibition purposes. The large hall is completely round and beautifully decorated with carvings and the high dome is composed of a fine shaded glass that shows everything off to advantage. There are several large hallways that could be used for hardy shrub decorations, and small rooms where exhibitions of house decorating can be given. It is expected that there will be great competition among the retailers at this show.

Peach, apple, quince and forsythia blossoms are used extensively just now in decorations and they are a great attraction.

Lilac is plentiful and selling well, much of it being used as plants in decorating.

Lilium Harrisii are very fine this season. There are also some fine spikes of *L. auratum* to be seen around. Asparagus is very popular this season, being preferred to smilax for fine work.

Acacia has made its appearance and is as usual quickly disposed of. *Ericas* and *epacris* are here with "old country" visions about them. Freedman, of Long Island, has a fine collection that is in bloom at present and a visit to his place reminds one of Burn's "Land O' Heather."

There are many new carnations out this season. Carnations were never so

plentiful, and are on the whole very fine.

The following varieties have kept the lead here for general trade: Lady Emma, Hinz's White, Crimson King (improved), Buttercup, Grace Wilder and Hindsdale; while fancy trade has chosen Alexander, Harrison's, Tidal Wave, Andalusia, Lizzie McGowan and Shaefer's.

Perhaps the handsomest bouquet carried here this season was recently made by Klunder, for a society belle, and cost \$75. It was composed of very light shaded cattleyas and phalaenopsis, asparagus tenuissimus holding the flowers apart, whilst very delicate fronds of *A. Farleyensis* crept from between the phalaenopsis. Around the outer edge between the cattleyas a velvety lavender colored ribbon was interwoven. The handle was wrapped in lavender ribbon, whilst a large bow of broad (8 inch) ribbon of the same color, hung from the front. It was described as "a dream of loveliness."

It is said on good authority, that Mr. Frank Hunter, the wholesale florist, has leased the Buchanan store, 37th St., and Fifth Ave., for a retail flower business.

JOHN YOUNG.

Boston.

The month of January up to present time has been an unprecedentedly dull period for the cut flower trade. Never before has the price of roses been so low or the demand for them so light in mid-winter. Lent coming in so early as it does this year makes the situation doubly unfortunate for the rose growers.

There has been very little demand for any thing in fact. Violets dropped to half price, carnations have been offered in large quantities at low prices although they have not suffered as much as the roses and violets. The weather has been reasonable and wintry enough to have brought about better results, and everybody is seeking for the cause of the break. Bulbous stuff is not over plenty. Tulips which sold very poorly after Christmas are selling rather better, and Roman hyacinths have somewhat recovered from the depression. Freesia is very abundant and the market is badly overstocked with it. Among the novelties are English primroses, gloxinias and heath, all of which are coming in in small quantities.

The subject for discussion at the weekly meeting of the Mass. Hort. Society on January 24 was "Roses," the essay being delivered by Mr. J. N. May, of Summit, N. J. Mr. May was welcomed by the largest audience that has been gathered together for years to listen to a Saturday essay. His address was very interesting and drew out a spirited discussion. Noticeable especially was the large number of ladies in the audience. One of the explanations offered for this is that they must have seen a picture of Mr. May somewhere.

All S. A. F. members who ordered and paid for group pictures at the Boston convention who have not yet sent in their names are requested to do so at once to Secretary Stewart. Please state whether it was the Hayes or the Humewell group which was ordered. Arrangements are being made to have all these orders filled. The man who took them has proved to be untrustworthy.

W. J. S.

Toronto, Ont.

The Gardeners' and Florists' Club is getting down to business now in the matters of receiving the Society of American Florists in August next and the flower show to be held at the same time.

It is possible that the latter will be conducted both by the club and a society which has for years acted as a horticultural society; this matter has, however, not yet been finally decided, so that though we do not expect to be able to give our visitors such a treat as they had at Boston last year we think some of them will be very likely quite as much surprised to find us so far advanced in this "wooden country" as the Executive Committee of the S. A. F. were.

Some injustice was done to Messrs. Spears & Mustor, (Deer Park, Ont.,) in the accounts of the banquet to the S. A. F. committee in their not being mentioned as having supplied some of the roses used for the table decoration. Messrs. S. & M. really had there some of the best Brides and Mermets it would be possible to find on this continent. Mr. Dale's (Brampton, Ont.,) Woottons too were hardly done justice to in the papers, but you will probably hear more about them from other sources.

Can any one tell me what is the matter with *Tradescantia discolor*, a decorative plant? Is it too easy to grow? I came across it the other day after having nearly lost sight of it for years. E.

Washington.

The demand for cut flowers during the present month has been very active, but owing to the bright sunny weather the supply has more than equalled the demand and prices have not ranged as high as they did last year under a less favorable sky.

Of other receptions the recent dinner at the White House given by the President to the Cabinet was the most noteworthy. Symbolical and set pieces have been banished it would seem from the dining table this season. On this occasion the double I shaped table had at each end two superb plants of *Cypripedium insigne* so trained as to completely hide the pots, midway between large clusters of *Bon Silenes* as contrast. Lengthwise upon the center of the table was massed a row of eight plants of the same beautiful orchid, the pots completely hidden by foliage, having the appearance of a densely packed bed of bloom, there being some two hundred perfect flowers in this piece alone. The two great mantels at each end of the room were banked, the one in white carnations and hyacinths, the other in *Meteors* and red carnations, while portions of lace were strung with smilax and asparagus.

The most lavish floral decoration which has been witnessed here for many a year at a wedding was presented at the recent Andreuviel Divonne nuptials. The church, which is one of the largest here, was literally converted into a garden of lilies and palms and vines. The sanctuary was draped in white bobinet pleated with a wide frieze around the top; from this trailed artistically *Asparagus tenuissimus* and smilax. A cordon of lilies of the valley extended the entire length of the shelving of the altar. Palms were tastefully placed at intervals from the lowest step in front of the altar to the uppermost plateau. Garlands of smilax and asparagus extended entirely around the inner walls of the church. Great plaques of palmetto leaves were appropriately arranged between the windows and graceful bright foliage plants served in every available space to impart attractive variety.

At the house of the bride where a wedding breakfast was served, the floral decorations were no less elaborately



SPECIMEN PLANT OF CANDYTUFT

orate, lilies, callas and palms predominating. Every one remarked upon the exceptional display of floral skill and the profusion of superb blooms. There could not have been less than a thousand lilies and several thousand yards of smilax and asparagus required to carry out these decorations.

The annual expenditures by the federal and local authorities upon the parks and public grounds of the National Capital aggregate upwards of \$200,000, distributed according to last year's appropriations as follows: Improving Capitol grounds and terraces, \$67,000; D. C. Park Commission, \$20,000; Botanic Garden, \$18,893; Agricultural Department Gardens, \$18,920; Improvement and care of Public Grounds (approximated), \$80,000, exclusive of office expenditures.

The Department of Agriculture expended in addition for purchase and distribution of seeds \$100,000, for the maintenance and improvement of a Zoological Park \$92,000. And for the purchase of land for a public park in the suburbs along Rock Creek, \$1,200,000 were appropriated.

Baltimore.

"Baltimore!" do I hear you say Mr. Editor? "Present, sir! Present and booming." Not only because we are to have rapid transit to bind our East End and West End together by a line of cable cars; nor that we are to have a ship canal that will make us 1,000 miles, more or less, nearer Liverpool than any other American port; nor that our farmers are preparing to plant the bottom of the bay and keep up our reputation as the headquarters for bivalves; nor that we are getting so far ahead in a floricultural

way that one of our suburbs, Washington, has a florist club of its own and is making a name and reputation only inferior to our own; but more than all these, and proving more clearly that we are in the fore front of progress is the contrast between the reports of our florists and growers and the published reports from the other three or four big towns on the continent for the past few weeks.

I read from New York, "Business for the past week has been very quiet;" from Philadelphia, "Trade for the past week has been very dull;" from Chicago, "Trade seems dead;" from St. Louis, "Trade is exceedingly slow;" and in comparison with these I take the report of the manager of the Baltimore Florists' Exchange, "Trade has been very good; Romans and callas the only slow stock." Is not that cause for jubilation? Particularly when we consider the increase in the amount of glass that is being run for our market during the past twelve months.

One of our leading florists said last week, "Christmas trade was up to last year but New Years was way ahead." Another said trade was much the same as last year, about \$50 advance only, and taking the whole of the past four weeks, from Christmas to the 23d of January, there does not seem to be one voice against the general verdict that trade is good, alive and booming. "There has been twice as much demand for orchid flowers in our market this year as last," says an orchid man. "Violets sell like hot cakes," says a violet grower, and so it goes all along the line, and the exhilaration of the scene is made greater when he thinks "Now surely after all this our men will invite the S. A. F. next time."

There is one suggestion that he hopes the gentlemen and ladies who have charge of the windows of our flower stores will permit him to offer, it is "Don't let the windows of dry goods and millinery, clothing and toy stores form such really artistic displays; or, if you can't help it, surpass them." If in any city it is the practice to make a really drawing picture of a florist's window and change the same with anything like the skill and taste displayed by some other trades, we hasten to acknowledge our inferiority to that city in that respect. It is an anomaly that the business that depends entirely on decorative effects should exhibit little or nothing in that line, a few roses and other flowers in bunches taking the place of what might easily be made a picture of an elegantly decorated drawing room window, or a model window garden, or be filled with a scene from any one of the thousand festive occasions in human life where flowers and the skill of the florist seem indispensable. If you have taste brethren and sisters of the retail business, show it. It can not be that you are restricted to one way of decorating, and are afraid of giving it away to competitors, nor that you are afraid of the expense, which need not be excessive. It pays those who do most of it in other trades. It will pay you. Try it.

MAK.

News Notes.

WASHINGTON HEIGHTS, ILL.—B. HUSTLER has retired from business. Please erase his name from the directory list that no catalogues may be wasted.

NEW BEDFORD, MASS.—The Gardeners' and Florists' Club is already considering the items of a premium list for a chrysanthemum show next November.

BAY CITY, MICH.—The Bay County Horticultural Society was organized here January 16. The officers are as follows: John Irvine, president; Ernest Frank, vice-president; T. J. Cooper, secretary; C. W. Hull, treasurer. Trustees—William Reuther, E. R. Phillips and Charles Breitmeyer. Meetings will be held the first Thursday of each month.

SPRINGFIELD, MASS.—The Amateur Horticultural Society will hold a rose and strawberry exhibition on June 16 and 17. Miller Brothers & Chapell is the new firm name of Miller Bros. Willis L. Chapell has been a member of the firm for over a year but the firm name has not been changed until this week. Business here is good, better than at any time since Christmas. Roses are good and plenty, violets fair, carnations fine but not plenty, bulb stuff good and stock full with such as jonquils, Romans, paper white, freesias and a few tulips.

PITTSBURG.—A meeting of the Pittsburg and Allegheny Florists' and Gardeners' Club was held the evening of Thursday, January 22. Rules and by-laws were adopted and over 100 members were enrolled. Preparations for an exhibition are already under way. There were some very interesting discussions and lively debates at the meeting. The name of the secretary of the club is Geo. Oesterle and not Asterley as given in last issue of the Florist. G. Ludwig's greenhouses in Allegheny were destroyed by fire the night of January 21. The houses were partially insured. Loss on stock was about \$1,500. The fire originated around the heating apparatus.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advts. not admitted under this head.

SITUATION WANTED—By practical rose and cut flower grower. Good references. Address Box 1, Central Valley, Orange Co., N. Y.

SITUATION WANTED—By a young married man as florist to take charge of private place; can bring good references; age 32. Address 157 W. Division Street, Chicago, Ill.

SITUATION WANTED—As gardener, or manager of a small greenhouse, by a respectable single man; honest; No. 1 references. Address A. W. Box 325, Riverside, Cook Co., Ill.

SITUATION WANTED—By a competent gardener and florist by the first of March or April. Long experience in all branches. Address FLORIST, P. O. Box 656, Birmingham, Ala.

SITUATION WANTED—By a practical gardener on private place; German, 40 years old; married. Best of references. Address M. F. BACIK, 812 S. Washtenaw Ave., Chicago.

SITUATION WANTED—By February 15 or March 1 as gardener or florist; 8 years experience; best of references; have been in charge of present place 2 years. Address, stating salary, H. OLSON, West End Greenhouses, Mt. Pleasant, Iowa.

SITUATION WANTED—By a first class florist. S. thoroughly competent; private or commercial place references: German; single; age 35 years. Only desires a change in a more Southern Florist State. Address A. B. care American Florist.

SITUATION WANTED—By a married man; German, as gardener in first class private or commercial place. Experience in greenhouse plants, cypripediums, roses and cut flowers; industrious and sober. Best of references. Address F. R. care American Florist, Chicago.

SITUATION WANTED—As foreman in a commercial or private place as gardener; age 32 years; 18 years' experience. First class rose grower, carnation, violet and all kinds of cut flowers, who understands business; honest, sober and strict; German. Have first class recommendations and references. Address P. R. care American Florist, Chicago.

SITUATION WANTED—By March or April 1st, by a practical gardener and florist; competent in all branches. Private place preferred. Good references of roses generally, cut flowers, fruits, vegetables, also tropical plants; laying out choice gentlemen's places. 12 years' experience; age 31; married. Good references. Desiring to change climate, North Middle States preferred. Mention salary. Address G. A. BOEHM, 75 McGovern St., Chicago.

WANTED—A first class man for cut flower trade; one who understands making up designs and floral decorations. Drawer 5, Minneapolis, Minn.

WANTED—To rent, a few greenhouses in good repair, fit for roses and carnations, for over one hour from New York City. State terms, etc. Address A. B. BOLASH, Yantic, Conn.

WANTED—A first class florist, to take charge of a set of houses; must understand the growing of roses and other cut flower plants; also plants for the wholesale and retail market. Address A. GIDDINGS, Danville, Ill.

WANTED—An active, progressive greenhouse gardener, who could at times assist in order and packing department of a large commercial place. Give references and particulars to G. G. Lock Box 108, Philadelphia.

WANTED—Clerk. One familiar with all the details of office work of a nursery. Must be temperate and steady. A permanent situation at good salary will be given the right man. Address J. J. LOVETT, Little Silver, N. J.

WANTED—Active business man with cash to take an interest in first class florist business, well established. 8 greenhouses 100 ft. each, heated by steam, well stocked and in excellent order. Address J. CLIFF, care Am. Florist, Chicago.

WANTED—One or two young men to set up orders and assist in packing department in a commercial place. Address, stating salary, age, experience and amount of experience. CHAS. A. REISKER, Indianapolis Greenhouses, Indianapolis, Ohio.

WANTED—A steady and industrious young man to do general work round the house and grow vegetables for family; 2 acres of ground; must have some experience. State salary expected. For particulars apply to HUGHES & STENSON, Uniontown, Pa.

WANTED—An intelligent, middle aged woman, who understands flower raising, to come to a thriving Tennessee town, to assist in housekeeping and the care of a small florist business. One who will not appreciate a good home with congenial people need apply. R. Box 6, Chattanooga, Tenn.

FOR SALE—A country hotel with greenhouse, in a prosperous Connecticut town. For particulars address HOTEL, care Am. Florist.

FOR SALE—Florist depot; splendid location; rent well addressed. LAMM, P. O. Box 10, Philadelphia, Pa.

FOR SALE.

Five greenhouses in town of 50,000, good shipping facilities, railroads leading in sixteen directions. One of the best openings for a capable man. Property free from all incumbrance. Some capital required, good security for investment. Address Y. Y. Z. care American Florist, Chicago.

**"THE RAINBOW."**

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

SAN FRANCISCO, CAL.

SPECIAL FOR FLORISTS.

About February 1st, we shall print a large edition of circulars illustrating the Japan Snowball and the Red-Flowered Dogwood.

For orders for circulars received previous to going to press we offer them at very low prices. Circulars have your name and address on them; Sample and prices on application.

Every florist can sell a large number of these beautiful shrubs at very little expense, and the profit on them will more than pay for the effort. The following from a New Jersey customer speaks for itself:

"I am meeting with good success in the sale of the JAPAN SNOWBALL, and the prospects are that I shall send you a large order for them. Have sold so far seventy-three plants."

MEEHAN'S NURSERIES, STATION "G" GERMANTOWN, PHILA.

FOR SALE.
A first class florist establishment near San Francisco, California. Fine stock. Good trade. Nine greenhouses; modern appliances. Terms reasonable. For particulars, address EMORY E. SMITH, 321 Market St., San Francisco, Cal.

A BARGAIN.
Rare chance for an enterprising florist, having some capital. Large hot bed. Leading shipping trade in S. E. Ohio. Sales during first year will more than equal the purchase price. Land for sale or lease. Four houses stocked and equipped. Must sell for good reason.
E. L. KOETHEN, Zanesville, O.

FOR SALE.
The Walkerton Greenhouse and Market Gardens. These premises consist of 34 acres of first class land with 250 small fruit trees, a neat two-story brick dwelling, two greenhouses heated with hot water, with all modern improvements; well stocked and necessary hotbeds. No opposition nearer than 50 miles distant. Also 61 acres of highly cultivated good land under lease for years on good terms, on which are 1 acre of young bearing raspberries, and 1 acre of strawberries. Apply to W. W. JENNINGS, Ford River, P. O., Mich., or SHAW & SHAW, Walkerton, Ont., Canada.

—ROSES.—
We are now taking orders for delivery after March 1st, on the following varieties, 3 inch pots: Perles, Nipheas, Souv. d'un Ami, Cook, LaFrance, Bennett, Brides, Mermel, Woolton, Heste and Beauty. Orders booked in rotation, and good stock guaranteed. Reasonable prices given upon application. Address **GERMOND & COSGROVE**, Rockland County, SPARKILL, N. Y.

ORDER NOW FOR SPRING TRADE

Hardy Shrubs for Eastern Gardens.

JAPAN MAPLES in 20 choice sorts. Japan Magnolias; Stellata, Conspicua, Paviflora, etc.

Tree & Herbaceous Paeonias, Iris Kempeferi in newest magnificent coloring. Hardy Conifers, New sports of Retinosporas.

MINIATURE JAPAN CONIFERS.
Cycas Revoluta Stems greatly reduced. Araucarias, Tree Ferns, Bamboos.

We furnish RELIABLE goods at correspondingly rates.
Send for Catalogue to

H. H. BERGER & CO.,
P. O. Box 1501, SAN FRANCISCO, CAL.

**Dwarf Budded Roses.**

The stock we offer this season is in unusually fine condition and includes all the leading varieties: Anna de Diesbach, Mad. Gabriel Luizet, Wabel Morris, Magna Charta, Baron de Bonstetten, Queen of Queens, Soule de Neige, Paul Neyron, Capt. Christy, Prince de Rohan, Fisher Holmes, Gr. Jacquemont, Louis Hoppner, Louis VanNoutte, White Baroness. Price \$12.00 per rose, \$12.00 per loco. A fine lot of Marechal Niel with can. s. 10 to 12 feet long, \$1.00 each.

HENRY A. DREER, 714 Chestnut St. Philadelphia.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6 inch pots. The best Novelties from prominent growers. **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

E. G. HILL & CO.,
RICHMOND, INDIANA.

Send our January Trade List. A full line of the finest Novelties from prominent growers. COMPLETE STOCK OF BEST STAPLES: ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for florists.
E. G. HILL & CO., Richmond, Indiana.



THE NEW ROSE

WABAN

This very valuable rose originated at the Waban Conservatories of E. M. Wood & Co., Natick, Mass. It is a *SPORT* from Catherine Mermet and identical with that variety in every characteristic, excepting color, which is a rich, deep, *BRIGHT PINK*; it sustains the same relation to its parent as Duchess of Albany does to LaFrance. The only objection to C. Mermet is its frequently pale, insipid color in cloudy weather; experience has shown that the **WABAN** retains its deep rich color in all kinds of weather; it will, without doubt, prove to be as valuable as *THE BRIDE* which is also a sport from the same magnificent variety.

IT HAS ALREADY RECEIVED THE SILVER MEDAL

of the Massachusetts Horticultural Society; of the Pennsylvania Horticultural Society, and *Certificate of Merit* from each of the Societies in this country and Canada where it has been shown,

Ready for Distribution on April 15th, 1891.

Orders booked now, will be filled in strict rotation.

Extra good plants from 2½-inch pots.

1 Plant,	\$ 1.00	250 " "	\$100.00
12 Plants,	9.00	500 " "	175.00
50 " "	30.00	1000 " "	300.00
100 " "	50.00		

From 4-inch pots.

1 Plant,	\$ 1.50	50 Plants,	\$ 40.00
12 Plants,	15.00	100 " "	75.00
25 " "	25.00		

The following Agents have been appointed to sell the Rose in the respective territories given below:

W. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th & Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

STRONG AND HEALTHY ROSES

2-inch, best varieties, 100 or 1000.
MARGUERITES; PETUNIAS; ABUTILON
GOLDEN FLEECE; PRIMULA OB-
ICA; AZALEA; CINERARIA Hyb.
RIDA; ENGLISH IVY;
GERMAN IVY;
CARNATIONS. Rooted Cuttings Standard Vars.
CHRYSANTHEMUMS. Rooted Cuttings
Standard Vars. Write for prices.

PROBST BROS. FLORAL CO.,

1017 Broadway, KANSAS CITY, MO.

Mention American Florist.

IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

SEEDS ROSES

Seeds, Plants, Shrubs, Vines,
Fruit & Ornamental Trees, Etc.

CATALOGUE FREE.

Over 150 pages illustrating and describing one of the largest and best assorted stocks of Seeds, Trees and Plants in the U. S. Best value for the money in our Tested Novelties and Special Low Priced Collections.

37 YEARS. 25 GREENHOUSES. 700 ACRES.

THE STORRS & HARRISON CO.,
Painesville, Ohio.

COLEUS.

ROOTED CUTTINGS.

HEALTHY AND VIGOROUS.

Address

Eighteen varieties, including Golden Bedder, Golden Verschaffeltii, Crimson Verschaffeltii, Firebrand, Peter Henderson, Glory of Autumn, Sunray, etc.

ROOTED SAMPLES OF THE SET MAILED FOR 20 CENTS.

Shipment any time. Send for Trade List. Fine, healthy **VERBENAS**, in twenty-five varieties, named, fine, healthy stock, delivery February and later.

ALEX. McBRIDE, Alplaus, New York.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 cents a Line, Agate;
Inch, \$1.40; 10 Lines, \$14.00.
Cash with Order.**No Special Position Guaranteed.**Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
various pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Catalogues Received.

Gause & Bissell, Richmond, Ind., plants
and seeds; Nanz & Neuner, Louisville, Ky.,
plants, seeds and bulbs; W. Atlee Burpee
& Co., Philadelphia, seeds; Welch Bros.,
Boston, florists' supplies; R. T. Lombard,
Wayland, Mass., carnations and chrys-
anthemums; John McCowan, Orange, N.
J., carnations; Seven Oaks Nurseries,
Union Springs, Ala., plants and nursery
stock; T. H. Spaulding, Orange, N. J.,
chrysanthemums; H. E. Chitty, Paterson,
N. J., carnations; Pope & Bergman,
Quedlinburg, Germany, seeds; Schultheis
Bros., Steinfurth bei Bad Nauheim,
Germany, roses; Wm. Toole, Baraboo,
Wis., pansies; Thos. Meehan & Son,
Germantown, Pa., novelties in nursery
stock; Storrs & Harrison Co., Paines-
ville, O., plants, seeds and nursery stock;
Hugh Low & Co., London, England,
plants; S. M. Baylis, St. Louis, Mo.,
nursery stock; Joseph Renard, Union-
ville, Pa., carnations; H. G. Faust & Co.,
Philadelphia, seeds; James Vick, seeds-
man, Rochester, N. Y., seeds and plants;
J. A. Simmers, Toronto, Ont., seeds;
Cole's Seed Store, Pella, Ia., seeds; Lud-
wig & Richter, Allegheny, Pa., seeds; L. L.
May & Co., St. Paul, Minn., plants,
bulbs and seeds.

Crude Oil for Fuel.

I would like to ask of the readers of
your paper why crude oil is not used
more for fuel for heating greenhouses.

It would seem that at the price of 50 or
60 cents per barrel it would be much
cheaper and save hard work and keep
an even fire.

Will those that have had experience
give their views in regard to it.

Medina, O. J. S. WARNER.

[The results of several experiments have
already been given in these columns.
That there are great possibilities in this
direction is quite probable, and some are
already using crude oil with satisfactory
results. Still, as several accidents and
fires have resulted from its use, others
are naturally timid about experimenting
with it. Again the amount of machinery
necessary to properly feed the burner is
quite a drawback. With all the burners
which have been brought to our atten-
tion an additional boiler is necessary to
supply steam to feed through the burner
with the crude oil. Several attempts
have been made to devise a simple and
inexpensive burner, but if success has
been attained we are as yet unaware
of it.—Ed.]

THOSE ISSUING catalogues and trade
circulars should note the changes in our
directory, which are given in our news
columns.

IMPORTANT TO ALL FLORISTS.

Our new trade list of 50 pages and our descriptive catalogue of 100 pages is
now being mailed to you. Should you not receive a copy within a few days,
notify us and we will send you one.

Without any desire to brag we assure you we have the largest and best col-
lection of Chrysanthemums in the country.

All stock is bloomed before propagated from. Our list contains over 600
varieties. We also publish a list of synonyms in our catalog.

Pamphlet of "Summer Flowering Bulbs" 20 pages mailed on application.
Price \$3 per 100. Our name does not appear in the pamphlet, therefore it is
highly valuable for those having a counter trade. Our list of dormant bulbs
is the largest and finest of any in the country.

We have so much of interest to florists and others in our catalog that we
cannot begin to mention any.

Blanche Ferry Sweet Pea, proved of great value last year as a cut flower.
We have a large stock of fresh seed at 10 cents per oz.; \$1.00 per lb.

You will bear in mind we told you last year that Chrysanthemum V. H.
Hallowack was a good one. You will hear from this later on. We also recom-
mended Charity and White Cap on our last years set as being particularly
valuable for florists' use. Prices in quantity on application.

**V. H. HALLOCK & SON,
QUEENS, N. Y.**

Mention American Florist.

50,000 READY NOW. 50 VARIETIES.

Strong plants, 24-inch pots..... \$2.50 per 100; \$20.00 per 1000
Rooted Cuttings..... 1.00 " 8.00
Our Verbenas this year are the finest we have ever grown.

No Rust or Mildew
Packed light, and satisfaction guaranteed. Sample on receipt
of 25 cts. J. L. DILLON, BLOOMSBURG, PA.

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—STRONG AND HEALTHY—

Ready for immediate shipping. Per 100 Per 1000
General Collection stock plants, named \$3.00 \$25.00
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" Rooted Cuttings..... 25 20.00
General Collection..... 1.00 8.00
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Bedder, Hero, Verschaffeltii and 25
Cotton..... 5.00 40.00
Heliotrope, Rooted Cuttings, named..... 1.25 10.00
Gazianthus " "..... 1.25 10.00
Cissampelos " "..... 1.25 10.00
Aceratum " "..... 1.25 10.00
Powerful The Gem, Rooted Cuttings..... 2.00 16.00
Salvia Splendens " "..... 1.25 10.00
Begonia Klara, Metallica, etc " 2.00
Chrysanthemum varieties and prices on
application.

Ampeleopsis Vetchii, strong plants..... 8.00 75.00
Trade List of Florists' Stock on application.

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2-inch..... 3.00
GERANIUMS, 20 good satiable vars., 2-in..... 3.00
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HELIOTROPE, 2 and 2 1/2-in..... 3.00
DOUBLE WHITE FEVERFEWS, 2-in..... 3.00

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JACKSON CO. INDEPENDENCE, MO.
(Independence is well located for shipping, being
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\$2.50 per 100; \$20 per 1000; 500 at 1000 rates; in special
order \$3.00 per 100; strong rooted transplanted cut-
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too many of a sort are not wanted. Cash with
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First Class Smilax, \$2.00 per dozen; \$15.00 per
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THE AMERICAN GARDEN

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20 vars. new seedlings, Mammoth strain, per
100 \$3; per 1000 \$25.
Rooted cuttings of same, 100 \$1; 1000 \$5.
Fine stock Heliotrope, 2 1/2-inch pots, \$3 per 100.
Double Fringed Petunias, 12 vars. 2 1/2-inch
\$4.00 per 100.
Adiantum Cuneatum, Decorum and Gracili-
sum, 5-inch, strong; \$15 per 100.
Primroses, double, per 100 \$12.00.
" single, per 100 \$8.00.
Geraniums, per 100 \$6.00.
Geraniums—latest Novelties.
Latania borbonica, 5-inch 4.00, 4-inch \$3.00
per dozen.
Miscellaneous stock of all kinds.

ROSES.

Mad. Hoste, La France \$5.00 per 100.
Duchess of Albany \$7.00 per 100.
Goutiers, Perles, Mermet, Bon Silences, Brides,
Niphotos and 50 varieties of monthly roses, \$4.00
per 100 or \$35 per 1000.
H. P.'s purchaser's choice, \$6.00 per 100 or
\$50.00 per 1000.
H. P.'s, our choice, \$5 per 100 or \$40 per 1000.

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ABSOLUTELY FREE FROM DISEASE.

Mammoth, strong 2 1/2-in. pots..... Per 100 \$10.00
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General Collection, 2 1/2-in. pots..... 3.00 25.00
Mammoth Set Rooted Cuttings..... 1.25 10.00
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Roses bought now for \$40 per 1000, or \$35 if our
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100 per cent. by Spring.

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Largest and most select stock in the South-
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J. L. DILLON, BLOOMSBURG, PA.

SPECIAL OFFER FOR CASH,

TO MAKE ROOM. Each
KENTIA, Bel and Post, 3 ft. high, 4 to 5 char.
acter leaves, \$3.00
" Bel and Post, specimen, 9 1/2 feet
high, 5 to 6 character leaves, 5.00
" Bel and Post, 2 1/2 to 3 ft. high, 3 to 4
character leaves, 2.00
" Bel and Post, 2 to 2 1/2 ft. high, 3 to 4
character leaves, 1.50
Aspidistra variegata, 3 to 5 leaves,75
Pandanus Virens, fine plants, 3 in. and 6 in. pots, 1.25
Crocus Weddelliana, 2 feet high, 1.50
All the above grown cool and in the best condition for
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AZALEAS in best varieties, plants 15 inches in
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Roses, Teas.....	BOSTON Jan. 27.	\$2.00 @ \$3.00
Carnations, short.....		3.00 @ 5.00
Narcissus, long.....		1.00
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Valley.....		4.00
Hyacinths.....		4.00
Tulips.....		4.00
Callas.....		12.00
Smilax.....		12.00
Adiantum.....		1.50
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" Lings, Magnas.....		30.00 @ 50.00
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" Bennetts.....		5.00 @ 10.00
" Perles, Niphets.....		4.00 @ 6.00
" Cusins, Hostes.....		8.00
Valley.....		5.00 @ 6.00
Tulips.....		4.00 @ 5.00
Defodils.....		4.00 @ 6.00
Carnations, long.....		1.50 @ 2.00
" short.....		.75 @ 1.25
Smilax.....		20.00
Adiantum.....		1.00

Roses, Perles.....	NEW YORK Jan. 26.	\$3.00 @ \$5.00
" Niphets, Souvs, Gondars.....		4.00 @ 5.00
" Mermets, Brides.....		6.00 @ 8.00
" Waverles, Cusins.....		2.00 @ 3.00
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" Bon Silence.....		3.00
" Am Beauty.....		25.00 @ 75.00
" Magnas.....		50.00 @ 75.00
Valley, Roman.....		2.00 @ 3.00
Narcissus, Paper white.....		2.00 @ 3.00
Defodils.....		4.00 @ 6.00
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" Mermets, Brides.....		4.00 @ 5.00
" Beauties.....		4.00 @ 5.00
" Gondars.....		4.00 @ 5.00
" Bennetts, Woodtons.....		6.00 @ 8.00
" La France.....		2.00 @ 3.00
Carnations, short.....		1.00
Carnations, long.....		1.00 @ 2.00
Carnations, long, fancy.....		2.00 @ 3.00
Valley.....		4.00 @ 5.00
Tulips.....		4.00 @ 6.00
Roman hyacinths, narcissus.....		1.00 @ 4.00
Smilax.....		2.00 @ 15.00
Adiantum.....		1.00 @ 1.25
Callas.....		1.00 @ 1.50
Harbells.....		10.00 @ 15.00

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Verbenas, struck cuttings, per 100 87 cts.	Per 100	75
Antennaria coronaria fl. pl. 3 in. pots.....		1.00
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The help for Cut Flower workers.
162 pages, colored plates. Edition
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PLANTS for CUT FLOWER GROWING

Roses, Carnations,
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I grow all the best varieties for this purpose. Whole
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SPECIALTIES: ROSES, CARNATIONS AND ORCHIDS.

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H. W. BUCKNER, of Rockford, Ill., and Frank T. Emerson, of Omaha, Neb., visited Chicago the past week.

IN COLORED WORK, good wood engravings and generally excellent press work, the 1891 seed catalogues appear to excel those of any former years.

PHILADELPHIA.—The 12 year old son of Mr. Z. DeForest Ely narrowly escaped drowning while skating on the Schuylkill on the evening of January 9.

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SEED BAGS
ENVELOPES OF ALL KINDS.
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Samples and prices on application. When writing for prices, please state sizes and quantity wanted.
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CHOICEST STRAINS FOR FLORISTS.

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Have taken First Premium wherever shown, at Illinois, Minnesota and Wisconsin State Fairs.
65 Distinct Varieties. Various Mixtures.
Extra choice mixed, 10c. pt.; 100 seeds 30c.; 1/2 oz. 50c. Selected or florist mixed, each pt. 15c.; 100 seeds 30c.; 1/2 oz. 75c.
"Pansy Guide" and price list free.

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CANNAS.
Ehemann and LaTour de Grand Ronde..... \$ 8.00
Emil Leclair, Nouton and Adolph Weick..... 12 00
Tuberosea Pearl..... per 100 \$10.00
Caladium Escutcheon, 1st size..... 7 00
2nd size..... 5 00
Can use in exchange, 1,000 Carrotions, Rooted Cuttings.

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SURPLUS FOR CASH.
All nice, Clean Stock. Strong.
Geraniums, best sorts, 2 1/2 inch..... 2 50
Clematis, 4 inch budded and 2 1/2 inch..... 2c to 7c
"Moms", cut for geraniums, rooted cuttings..... 2c
White Iris clumps, fine..... 2c
Fuchsias, double and single, 2 1/2 inch..... 3c
Rose Marie Van Rouse, 2 1/2 and 3 inch..... 4c
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Largest stock in the West. Over fifty varieties of PALMS at 5c. to \$10.00 each.
CYCAS REVOLUTA, 50 cts. to \$15.00 each.
DRACAENA INDIVISA, AUSTRALIS and TERMINALIS, 4 cts. to 15 cts. each.
CACTUS, ALOES, AGAVES and YUCCAS.
25¢ sent for price list.

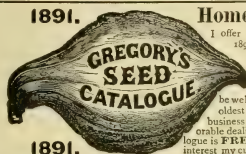
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CANNAS, fine bulbs..... Per 50 Per 100
FRIMULAS, nice plants..... 25-50 50-60
SMILAX, good..... 25-50 4.00
PANSIES, from cold frame..... 1.25 2.00

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For 1891 will be mailed FREE
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Plants, Bulbs, and Requisites. They are the best at the lowest prices.
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Will be ready in about 10 days. We have said before that our specialty in this trade has become fairly well known by the phrase we have occasionally used

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Home Grown, Honest, Reliable.

I offer you my Vegetable and Flower Seed Catalogue for 1891 **FREE.** Note the immense variety of seed it contains, and that all the best novelties are there. Not much more show about it (you don't plant pictures) but fine engravings from photographs of scores of the choice vegetables I have introduced. Would it not be well to get the seed of these from first hands? To be the best firm in the United States making mail and express business a specialty proves reliability. Honest and honorable dealing is the only foundation this can rest on. My Catalogue is **FREE** as usual. A matter on second page of cover will interest my customers. **J. I. H. GREGORY & SON, Marblehead, Mass.**

TRUE TO NAME
TESTED SEEDS.
TRY US ONCE
END AGAIN.

Forcing Bulbs.

SPECIAL OFFER.

	Per 1000	Per 100
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5,000 " " single blue.....	12.00	1.50
5,000 " " double white.....	10.00	1.00
5,000 " " single yellow (novelty).....	7.50	.75
5,000 Tulips, late mixed (Italian).....	5.00	.50
2,500 Narc. Incomparable, double.....	20.00	2.50
750 " Orange Phenix, " " white and orange.....	7.50	1.00
5,000 " " Pottedius ornatus, single, white.....	18.00	2.25
5,000 " " Von Seck, single, yellow.....	15.00	2.00
5,000 " " In splendid fortune mixture.....	15.00	2.00
5,000 Pol. Narc. Grand Primo, white, ext.....	15.00	2.00
1,000 " Grand Soleil d'Or, yellow, extra.....	20.00	2.50
10,000 Friesia refracta, white, home grown.....	12.00	1.50
3,000 " " Leitchii major, home grown.....	15.00	2.00
5,000 Lilium (Andromed), home grown, ext.....	3.00	.30
1,500 " " Harriett, 3 1/2 in. diam.....	60.00	6.00
2,000 " " Pomponium Verum, red.....	40.00	4.00
300 " " Teufelshorn, scarlet.....	15.00	1.50
5,000 Am. Zephyranthes candida, extra size.....	20.00	2.50
1,000 " " Zephyranthes rosea, ext. size.....	30.00	4.00
15,000 Ranunculus, finest Sicilian mixed.....	5.00	.75
Cyclamen PERISICUM, first size bulbs, 1000.....	\$10.00	\$1.50
GRANDIFLORUM.		
(true).....	18.00	3.00
Tuberosea Pearl, extra.....	per 100 \$ 0.10	1.50
Lily OF THE VALLEY, the Berlin.....	5.00	.50
Pips 3 yrs old in prime condition, per minimal case of 10.....	\$3.00	per 100 \$3.00
\$10.00; per 1,000 \$10.00.....	1.30	.35
Terms Cash, without engagement.		

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Importer and Dealer in
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Catalogue free to the trade.

For Early Cash Orders.

	Per 100
Anauryllis Vittata, strong.....	\$ 8.00
Canna Ehemann, dormant crowns.....	5.00
" " Emilie Leclair, " " dozen 81.....	5.00
" " Ornement des Grande Ronde, dormant crowns.....	5.00
Gladiolus, Lemoine's Hybrid, 20 the named kinds.....	5.00
Gladiolus, mixed, mostly light colors.....	\$10.00
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Lists free.	
B. Y. TEAS, Irrington, Marlon Co., Ind.	

Another Fresh Lot of Seedlings.
300 Bellis Snowball in 2-inch pots, strong plants.
250 Lobelia cardinalis, 2 in. 2-inch pots, strong plants.
500 Smilax in 2-inch pots, strong plants.
All ready for 2-inch pots, but not to be taken at 100 rate.
W. T. STEPHENSON,
PETERSBURG, ILL.

— ORIGINAL AND LARGEST GROWERS OF —

LILIUM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

— BULBS NOW READY FOR DELIVERY. —

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 140 in length, of a crop of *Liliium Harrisii* in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fits in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 20,000 bulbs for his own use. We hear it said occasionally that *Liliium Harrisii* flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as HEADQUARTERS FOR THE BERMUDA EASTER LILY; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP OF 1890, over

— HALF A MILLION BULBS. —

Be sure you get the genuine *Liliium Harrisii*. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant *L. Longiflorum* in Bermuda, planting it with *Harrisii* to increase their stock rapidly when *Harrisii* was very scarce, thus mixing the stock irretrievably thereby rendering it absolutely valueless for forcing and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Cost of Water Supply.

Will the readers of the FLORIST who use city water kindly give me information on the following points:

Do you use a meter, and if so how much do you have to pay per thousand gallons? How much water do you average for each 1,000 feet of glass? How many thousand feet of glass do you have to have in order to get the rate made you? Does the water works have to pump the water from wells, or have they a natural supply by storing? When no meter is used what rate do you have to pay?

I believe that answers to the above questions and any other information regarding this matter will be of considerable interest to many others with as well as myself.

Chatham, N. Y.

R. E. SHUPHELT.

Failure of Liliun Harrisii.

What is the cause of Liliun Harrisii bulbs not starting, or if they do start, making little short growths or leaves, but throwing no main stem? I bought 100 9 to 12-inch bulbs and only 65 started up into good growth and threw up a bloom stem. The smallest bulbs in the lot started, but the largest did not. Could the seller of the bulbs know that the bulbs would not bloom? Will some reader of the FLORIST please try to throw some light on the matter.

A. C.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. Shelmire,
AVONDALE, PA.

Rooted Cuttings of Carnations

of all the Standard Varieties ready Dec. 1st.

Having added another 100 foot house to our Carnation Department, hope to be able to furnish any quantity desired, on short notice.

Orders for future delivery at 10 per cent off from catalogue price.

JOS. RENARD, Unionville, Chester Co., Pa.

CARNATIONS.
ROOTED CUTTINGS

of New and Old varieties at the lowest price possible to secure good stock from healthy plants. Seventy-five thousand will be ready by Feb. 1st. Send for catalogue or price list.

SEND ORDERS EARLY.

ISAAC LARKIN, Toughkenamon, Pa.

MY NEW SPECIAL OFFER OF
EXTRA CHOICE FLOWER SEEDS

is now published and may be had on application.

FRED. ROEMER,
SEED GROWER
Quedlinburg, Germany.

Box's BEGONIAS.

BEST QUALITY IN EUROPE.

LOWEST PRICES EVER OFFERED.

SEEDS. For \$2.00 will mail you gratis good packet each of Single and Double form very best varieties; none to equal it; wins everywhere. Sold close on a million seeds of these in December.

TUBERS. Can ship till March 100 superb Singles, assorted colors, for pots \$10; 50 choice assorted Doubles \$10. List and pamphlet mailed gratis on application. Send your orders promptly.

JOHN R. BOX,
(Established 60 years.)

CROYDON, ENGLAND.
East Surrey Seed Warehouse.

ROOTED CUTTINGS.

— Send for Lists. The prices and quality are sure to please. —

CARNATION NOVELTIES: Lizzie McGowan, Louise Porsch, Golden Gate, J. Angelus, Dorothy, Nellie Bly, Snow Bird, White Wings, May Flower, Orange Blossom, Beauty of Oxford, Emily Louise Taplin, and others are described in my list. Also all the standard varieties.

COLEUS—A large stock of **VERSCHAFFELTII** and **GOLDEN BEDDER** and twenty-two fancy sorts, all good bedders, at 75 cts. per 100; \$6.00 per 1000.

CANNA EHEMANNI, strong roots, at \$8.00 per 100. **EMILE LECLAIRE**, \$10.00 per 100; and the **DWARF FRENCH** at \$12.50 per 100. All in extra good shape.

SMILAX for delivery in March, \$6.00 per 1000 for plants once reset. Samples 10 cts.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

LIZZIE MCGOWAN,

* * THE QUEEN OF WHITE CARNATIONS! * *

Will be ready for distribution February 10th, '91. Price, \$12 per 100; \$100 per 1000, for strong well rooted plants from cutting bench. Plants well established in small pots, \$3 per dozen.

Send for price and descriptive list of this and other sorts.

ADDRESS

H. E. CHITTY, PATERSON, N. J.

WINTER-FLOWERING CARNATIONS
FOUR GRAND NEW VARIETIES.

You cannot afford to pass by without trying our seedlings of merit for 1891; there is more profit in growing fine, fancy flowers every time; and in **GOLDEN GATE** (yellow), **WM. F. DREER** (rose pink), **J. R. FREEMAN** (cardinal crimson), and **CONSTANCY** (scarlet), you have a good range of color in the most perfectly shaped flowers and productive of bloom.

Prices, Golden Gate, \$2.50 per dozen; \$20 per 100. Dreer, Freeman and Constancy, \$2.00 per dozen; \$15 per 100. On an order at one time for 100 plants of each variety or 400 plants in all, the price would be \$50; or half the amount, \$25. Sample flats of the four varieties will be mailed on receipt of \$5 cts.

CHAS. T. STARR, Avondale, Chester Co., Pa.



LIZZIE MCGOWAN THE NEW WHITE

CARNATION. ROOTED CUTTINGS, \$12 per 100, or \$100 per 1000.

LOUISE PORSCHE FINE YELLOW

CARNATION. Better grower than Buttercup; \$7 per 100; \$50 per 1000.

Both ready for delivery Feb. 10, 1891. 500 at 1000 rate, 50 at 100 rate.

ADDRESS

JOHN MCGOWAN,
363 Main Street, ORANGE, N. J.

ROOTED CUTTINGS OF CARNATIONS.

Standard and Fancy varieties, ready January 1st. Stock healthy, cuttings rooted cool. A large stock of **NEW WHITE CARNATION L. L. Lamborn**. A liberal discount on large lots for later delivery. Send for wholesale price list.

Wm. Swayne, P. O. Box 226, Kennett Square, Pa.

CARNATIONS! LIZZIE MCGOWAN, FRED. CREIGHTON, GOLDEN GATE.

FAIR ROSAMOND, J. R. FREEMAN, HECTOR, MRS. FISHER, WM. F. DREER, CHASTITY, SILVER SPRAY, TIDAL WAVE, GRACE WILDER, L. L. LAMBORN, CONSTANCY, EDELWEISS, EMILY LOUISE TAPLIN, ANGELUS, LOUISE PORSCHE, NELLIE BLY, DOROTHY, DAY BREAK, and sixty other leading varieties. 50,000 now in cutting bench. Send for price list, and order early.

CHAS. T. STARR, Grand Haven, Michigan.

Every Florist! Every Nurseryman! Every Seedsmen!

SHOULD HAVE
OUR TRADE

DIRECTORY.

Address **AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.**

NEW CHRYSANTHEMUMS.

MILLER'S "WORLD'S FAIR SET."

We have been to great expense, sparing neither time or money in collecting this unequalled set. Characteristic of the leading city of this country, we have named them in honor of our representative citizens:—FERD W. PECK, or GALLIA, and J. V. FARWELL, or W. N. RUDD, were two of the set of six seedlings that took the \$100 prize at Indianapolis; S. W. ALLERTON and GEO. R. DAVIS were raised by Monahan of Philadelphia, who has originated some of our finest varieties. CYRUS H. MCCORMICK was raised by Jameson, and is one of the finest of the present year's novelties. The remaining eight are the XXX selections of 1800 seedlings that were raised by the leading grower of this country. In comparing

them with the different sets sent out this year we unhesitatingly say that they are second to none.

LYMAN J. GAGE, a grand late white.
GEO. R. DAVIS, ox blood red, Wheeler type.

J. V. FARWELL (W. N. RUDD), Lavender without, rosy violet within, a fine keeper.

CYRUS H. MCCORMICK, Dark deep yellow, shaded bronze red.

ANDREW McNALLY, Crimson scarlet, fine for exhibition.

POTTER PALMER, White seedling from L. Canning, very large.

FERD W. PECK (GALLIA), Rosy pink, fine exhibition variety.

CHAS. H. WACKER, Crimson scarlet, profuse bloomer.

ROBT. A. WALLER, Chamoise yellow, extra.

CHAS. T. YERKES, Bright scarlet and gold, fine cut flower variety.

S. W. ALLERTON, An immense white, fine for pot culture.

MARTIN A. RYERSON, An improved Mrs. Frank Thompson.

FRED S. WINSTON, Cardinal and Indian red of the Carnegie type.

SET OF 13 FOR \$6.

Orders booked for the above and also 100 of the leading exhibition and cut flower varieties to be delivered early in January. Send for descriptive list. "Get the best, grow the best, and keep up with the times," is our motto.

Orders booked for the PINK STRICH PLUME CHRYSANTHEMUM, LOUIS BOEHMER, at market price.

GEORGE W. MILLER, 1748 North Halsted St., CHICAGO.

NEW CARNATION OHIO. CHRYSANTHEMUMS.

A seedling of P. Henderson X with Buttercup. Flowers very large, often 2½ to 3 inches in diam. erect; high full center, finely fringed; pure white and very fragrant. Florists will find this one of the most profitable varieties for winter flowers. \$1.50 per dozen; \$12.00 per 100.

CARNATION LIZZIE MCGOWAN—\$1.50 per dozen; \$12.00 per 100.
NEW GERANIUM SOUVENIR DE MIRANDE—The most striking novelty in Geraniums that has appeared in years. \$10.00 per 100.

CANNA EHEMANNI—Strong, \$5.00 per 100. CANNAS, in eight best varieties, \$4.00 per 100.

DAHLIAS—Strong field grown roots, in 100 best sorts, \$5.00 per 100.

CALADIUM ESCULENTUM—7 to 10-inch, \$7.00 per 100. 5 to 7-inch, \$5.00 per 100.

AZALEAS—Fine plants with well shaped crowns, from \$25.00 to \$40.00 per 100.

HYDRANGEA PANICULATA GRANDIFLORA—All sizes from 4 inches to 3 feet high.

HYDRANGEAS—OTAKAS, HORTENSIA, THOS. HOGG, ALBA FIMBRIATA and RAMIS

PICTA, in large supply.

An immense stock of ROSES, GERANIUMS, NEW BEGONIAS and other Florists plants.

Full assortment HARDY SHRUBS, RHODODENDRONS, CLEMATIS, Etc. ORNAMENTAL and

FRUIT TREES, GRAPE VINES and SMALL FRUITS by the million.

If you have not received Spring Catalogue and Florist's Trade List, send for them—FREE.

THE STORRS & HARRISON CO.,
Painesville, Lake Co., Ohio.

THE AMERICAN FLAG

Is the best STRIPED CARNATION ever produced; it is a strong grower, free bloomer and very fragrant; it grows and flowers well outside and forces good inside.

\$ 2.00 per dozen.
12.00 per hundred.
100.00 per thousand.

We deliver only well Rooted Cuttings which have been once transplanted.

Ready for Delivery March 1st, 1891.

lg. FORSTERMANN, Newtown, Long Island, N. Y.



* CARNATIONS. *

GRACE WILDER, QUEENS SCARLET or PORTIA, PEERLESS WHITE, HINZE'S WHITE, SNOWDON, Rooted Cuttings for Feb. and March delivery. \$1.50 per 100; \$12.00 per 1000. Plants \$4.00 per 100. 10 other new and old leading varieties.

VERBENAS—Stock plants or rooted cuttings. Finest Verbena and Fanny Seed.

Best strains Flower and Vegetable Seeds. Catalogue free.

C. E. ALLEN, Brattleboro, Vt.

5,000 Spirea Japonica, fine clumps, per 100, \$3.50.
2,000 Gen'l Jec. Rose plants, 4-in. pots, per 100, \$5.00.
Golden Cuttings red, Verschaffeltii, per 100, \$7.00.
—Golden Bedder & Golden Verschaffeltii, " \$10.00.

JOHN BECK, Bridgeport, Conn.

VERBENAS, fine stock plants, \$3.00.

CINERARIAS, fine plants twice potted, \$5.

MCCREA & COLE, Battle Creek, Mich.

—All Prize Takers of 1890.—

I have over 250 varieties of the very best Chrysanthemums exhibited last year, and am now prepared to furnish plants at moderate prices.

Will send 100 strong plants, one hundred different kinds, all good ones, my selection, for \$4, or will send 500, cash discount, and continuing all the most valuable and popular kinds of the past season, for \$5.00.

All Plants guaranteed to be in First-Class Condition.

Send for descriptive circular giving full descriptions and prices to

O. P. BASSETT,
HINSDALE, ILLINOIS.

Zirngiebel's Improved Strains

—OF—

WHITE ASTERS, PERPETUAL WHITE STOCKS, GIANT MARKET and FANCY FANSIES, NEW HYBRID CARNATIONS, a cross between the Perpetual and Marguerites, and greatly superior for florists' use, in separate colors, pure yellow, white, pink and red shades.

Any of the above seeds in trade packets at \$1.00 each.

Also the choice NEW CONTINENTAL CARNATIONS for 1891. Miss Moune, Mme. Gobet, Roi des Violettes, Bouton, d'Or, Gance Morel, to be sent out March next.

Send for Descriptive List of all to

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.

CHRYSANTHEMUMS.

We have strong stock plants of all the best varieties to offer at low rates. Such as

KIOTO, L. B. BIRD, W. V. COLES, MRS. F. THOMSON, MRS. HARDY, L. CANNING, H. WATERER, GRANDIFLORA, GOLD, and many others.

COLES & WHITELEY, Lansdowne, Pa.

Carnation Cuttings.

Boxed off and well established. Send for Price List.

DE WITT BROS.,
BRISTOL, PENNSYLVANIA

Chicago.

At the last meeting of the Florist Club the Horticultural Society's project of a spring exhibition was discussed at length. It was decided that if an exhibition was to be given the coming spring it should be held as early as March 10 or not at all. The committee from the Horticultural Society was present at the meeting and were advised as to the sense of the club upon the matter. In order to facilitate matters in case the Hort. Society decided to give the exhibition, the club appointed a committee of three to confer with the committee from the Hort. Society and to assist in the preparation of a premium list which would best suit the circumstances and the season of the year. Business is better than at last report. The supply has also shortened up to some extent and prices have stiffened.

There promises to be quite a turnout to the Florist Club's entertainment to-morrow (Friday) evening. It will be held at Grand Army Hall, northwest corner of Dearborn and Adams streets.

Tom Rogers, the "Prince fakir" has the windows of his store plastered with a remarkable collection of placards. Among them are the following: "Violets 25 cents a bunch," "Carnations 25 cents a dozen," "No World's Fair prices," "My profits are large, my expenses small," "The hornet's nest," "No more high prices." He wants to be careful that he does not set down on his own hornet's nest.

Kidwell & Moore, 37th Court and Butler street have leased their greenhouses for five years to Herman Shaw, formerly with S. Nelson & Son.

Louis Gresenz has sold his interest in the cut flower commission firm of Gresenz & Harms to his former partner, E. J. Harms.

"Nothing Succeeds like Success."

HUGHES' (SOLUBLE) INSECTICIDE FIR-TREE OIL

Florists and Nurserymen Should not be Without it.
Dog and Bird Fanciers should all use it.
Housewives should use it as a Disinfectant, Bleacher and Cleanser when washing Under-Linen.

Sold by Seedmen and Chemists, 16 fd, 26 1/2 ft, & 48 fd; 78 gal, 78 fd; 1 gal, 12 1/2 fd, or less in larger quantities.
Treatise on Fir-Trees, Not as an Insecticide, its application to Plants and Animals, sent post free on application to the manufacturer, addressed to:
E. GRIFFITHS HUGHES, Victoria St.,
Mathematics, E. 10.

WHOLESALE from all the London Seed Merchants and Patent Medicine Houses.

NEW YORK: A. Rolker & Sons

Cane * Plant * Stakes. BEST PLANT STAKE AND CHEAPEST.

\$3 00 per 1000, F.O.B. Cash with order.

F. WALKER & CO.,

644 Fourth Ave. LOUISVILLE, KY.

MISSOURI NURSERY CO., Louisiana, Mo.
Salesmen wanted; special aids; magnificent outfit free.

STARK NURSERIES. Stark Bros. Nursery Co., Louisiana, Mo. Founded 1830. Oldest in the West. Largest in the World. Best of everything. Nearly 500 varieties of trees in almost every State and Territory; annuals exceed that of any other Nursery. We sell direct through our own salesmen, without the aid of free dealers or middlemen, and deliver stock, freight and all charges paid.

NO TREES

Rec'd. by the U.S. Dept. of Agriculture. Last and best like whole root trees; or like plum, prune and apple trees. We have the best plum stock grown. 100 lbs and other New & Old Fruits (by mail) ornamentals, root grafts, everything. No arger stock in N. O. No better. No cheaper.

READY IN FEBRUARY.

CHRYSANTHEMUM CULTURE FOR AMERICA.

History of the Chrysanthemum;
Classification and Care.

By **JAMES MORTON.**

An excellent and thorough book; especially adapted to the culture of Chrysanthemums in America. The chapters include

Oriental and European History.

American History. Propagation.

General Culture.

Exhibition Plants.

Insects and Diseases, Sports and

Other Variations.

Chrysanthemum Shows and

Organizations.

Classification.

Varieties for Various Purposes. Calendar of Monthly Operations.

Thus it will be seen that the author covers the field quite thoroughly. No other book yet published on this subject approaches this in special value for American lovers of the "Queen of Autumn." Illustrated. Pages, about 120.

PRICE, Cloth, \$1.00; Paper, 60 Cents.

THE RURAL PUBLISHING CO., Times Building, NEW YORK.



Bag, 100 lbs., \$3.50.

PURE * NATURAL * SHEEP * MANURE.

The richest and most nutritious food for plants, seeds, etc., used in the pulverized or liquid form the results are marvelous. In the culture of MUSHROOMS it can not be equalled. Hundreds of testimonials from well known growers.

WM. ELLIOTT & SONS,

54 and 56 Dey Street, N. Y.

For Wild Smilax, PALMS AND PALMETTOS. FOR DECORATIONS

Write to

A. C. OELSCHIG,
SAVANNAH, GA.

3,000,000 HARDY CUT FERNS

MOSS, Sphagnum and Green Sheet.

BOUQUET GREEN & FESTOONING

of all kinds always on hand. In fact

anything that grows wild.

HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.



MUSHROOM SPAWN

GEMLINE MILITARY

10 lbs 25 lbs 50 lbs 100 lbs

\$1.20 \$2.75 \$5.00 \$8.00

J. J. GARDNER & CO.

PHILADELPHIA, PA.



FANCY.

DAGGER.

EVERGREEN CUT FERNS

Especially for Florists' Use.

\$1.50 per 1,000; \$5.00 for \$6.25; 10,000 for \$10.00.

Special attention paid to supplying the trade all winter. Sample lot of 250 ferns sent in improved mailing box, postpaid, to any part of the U. S. for 75 cents.

SPHAGNUM MOSS (Dry).

Long clean fibre, sack or barrel \$1.00; six barrels \$5.00; twenty barrels \$15.00.

L. B. BRAGUE,
HINSDALE, MASS.

TOBACCO STEMS FOR FLORISTS.



For Sale, packed in

balcks 200 to 250 lbs.

No Charge for delivering to depots.

PRICE:

\$10.00 per ton, \$1.50

per single bale.

ADDRESS

P. C. FULWEILER,

323 Arch Street, PHILADELPHIA, PA.
Mention American Florist.

GRAPES FAY

Current

New Grapes—Elder, Rockwood, Eaton, and all others new & old. Best and Cheapest. Small Fruits. Catalogue free. G. O. S. JOURNAL, Fredonia, N. Y.

S. A. F. ATTENTION.

NOTICE RELATIVE TO THE AWARD FOR STANDARD FLOWER POTS.

The following articles not being admissible in the reading columns we present them to the readers of the Florist in this form, wishing to verify the statements already made by us.

A. H. HEWS & CO.

TO THE EDITOR OF "THE AMERICAN FLORIST":

In the interest of justice and fair play, I would like you to insert the following, relative to the award on flower pots. I am a potter by trade, and consider myself an expert. I examined the pots thoroughly as exhibited by Hews & Co. and Whilldin & Co., and under oath I wish to make the statement that I consider the statement made by Mr. Hews relative to the sizing of pots after they were made, by the parties receiving the award, a correct one.

G. W. MILLER, 1748 N. Halsted Street, Chicago.

GEORGE W. MILLER, of Chicago, a florist, personally well known to me, Nicholas Coones, a Notary Public for Cook County in the State of Illinois, personally appeared before me and on his oath says that he personally examined the pots above mentioned and considers the above statement herewith annexed to be in his judgment correct.



Subscribed and sworn to this 15th December, 1890.

NICHOLAS COONES, NOTARY PUBLIC.

I, W. P. BROWN, of Cambridge, State of Mass., do under oath make the following statement: I have been connected with the manufacture of Flower Pots for the past seventeen years, and consider myself an expert. I thoroughly examined the pots that received the award at the late exhibit of the Society of American Florists and hereby affirm that the statement made by Mr. Hews, relative to the sizing of pots after they were made, is a correct one.

WM. P. BROWN.

Then personally appeared before me, the above named William P. Brown, and took oath that the above statement made by him is true.

CAMBRIDGE, DEC. 27, 1890—I hereby certify that I have known William P. Brown for some 15 years, and believe him to be a man who would not make a false statement.

MILTON L. WALTON.

A. H. HEWS & CO., North Cambridge, Mass.



STANDARD POTS.

STRONGEST AND BEST.

Most POROUS and CHEAPEST POTS MADE.

For freight rates and prices, address

Hilfinger Bros. Pottery,

FORT EDWARD, N. Y.

MAISON AMERICAN FLORIST.

H. BAYERSDORFER & CO.,

WHOLESALE

FLORISTS' SUPPLIES ONLY,

56 N. 4th Street,

PHILADELPHIA, PA.



THE AMERICAN FLORIST

AND

THE AMERICAN GARDEN

In Club one year for \$2.50.

Address AMERICAN FLORIST CO.,

54 La Salle St., CHICAGO.



Diagram Showing
how perfect drainage
and ventilation
is secured.



Parties who have used this pot say that hereafter they will use no other.

Patented and Manufactured only by

THE WHILLDIN POTTERY CO., 713 & 715
WHARTON STREET, Philadelphia, Pa.

Agent for the New England States, M. J. MCCARTHY, 27 Otis St., Somerville, Mass.

PLANET JR.

IMPROVED FARM AND GARDEN TOOLS FOR 1891.

BETTER, Both Horse and Hand, THAN EVER; better and more money saving. We can not describe them here, but our new and handsome catalogue is free and interesting. A goodly number of new tools will meet your eye there. Among these: Gardener's Harrow, Cultivator and Pulverizer, combined, adjustable teeth; Market Gardener's & Beet Grower's Special Horse Hoe, with Pulverizer, Special Furrower, Marker and Ridger, adjustable wings; Sweet Potato Horse Hoe, four tools with vine turner; Heavy Grass Edger and Path Cleaner; new Nine Tooth Cultivator and Horse Hoe combined; Special Steel Leveler and Pulverizer combined; all interesting, nothing we have ever made so practical or perfect. Some improved things too are grafted upon our older favorites. A capital LEXER WHEEL, instantly adjustable for depth, is a great feature; put on all 'ol goods unless ordered otherwise. Now have our Hand Seed Drill been forgotten in the march of improvement, nor our Double and Single Wheel Hoes, Garden Plows, Grass Edgers, etc. Some of them are greatly altered for the better; yet do not forget that no novelties are adopted by us without actual and exhaustive tests in the field. We therefore guarantee everything exactly as represented. Send for Catalogues now.



S. L. ALLEN & CO., Philadelphia, Pa.



SPRAY YOUR FRUIT TREES AND VINES

Wormy Fruit and Leaf Blight of Apples, Pears, Cherries, EXCELSIOR SPRAYING GUN. Grape and Potato Rot, Plum Curculion presented by using EXCELSIOR GUN. PERFECT FRUIT ALWAYS SELLS AT GOOD PRICES. Catalogue showing all injuries insects to fruits mailed free. Large stock of Fruit Trees, Vines, and Berry Plants at Bottom Prices. Address W.H. FAIRL, Quincy, Ills.

Foreign Notes.

MR. GEORGE GORDON succeeds the late Shirley Hibberd as editor of the London *Gardeners' Magazine*.

ANNOUNCEMENTS have already been made of fifty three flower shows to be held in various parts of England during 1891.

THE ANCIENT Society of York Florists, the oldest in England, having had an unbroken existence of over 100 years, held its annual festive gathering recently.

THE NETHERLANDS Horticultural Society has announced an orchid show to be held at The Hague next May. The show will be of an international character.

A CHRYSANTHEMUM grower in England who had flowers mysteriously disappear from his plants during the night finally discovered that it was the work of rats who had developed a taste for the flowers.

THE MIDWINTER exhibition of the National Chrysanthemum Society of England was held at the Royal Aquarium, Westminster, January 7 and 8. The display was small owing to the very severe weather.

AN ENGLISH gardener has secured a new race of dahlias remarkable for their dwarf habit. The plants are from nine to twelve inches in height, compact and bushy. They have been given the name "Tom Thumb dahlias."

THE first number of the London *Gardener's Chronicle* was issued January 2, 1841, and in its issue of January 3 last, considerable space is devoted to a review of the work of the paper for the fifty years of its existence.

CHRYSANTHEMUM cut flowers brought very low prices in the London market the past season. During the latter part of November not more than four cents per dozen could be got for good blooms and even in the middle of December they were sold for 10 cents a dozen. These are less than half of the prices obtained the previous season.

A CABLEGRAM under date of January 23 states that for the last six weeks the flower markets of Paris have been practically destitute of blossoms owing to the severe weather, the damage done to the gardens in the environs of the city having been very great. The report states that one rose gardener at Ivry has lost \$20,000 worth of roses and that another at Malakoff places the damage done to his crop at \$46,000 while a third estimates his loss at \$10,000. Other rose growers name proportionately large losses and the total estimated loss foots up to about \$200,000. At the little town of Chevreuse, near Versailles the gardeners report the loss of plants valued at \$80,000, and at other near-by points \$180,000. During these six weeks 2,000 gardeners and their assistants have been out of work.

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CAMPDEN, N. J.—Articles of incorporation were filed January 19 by the "Abion Chestnut Co." Its objects are to buy and improve lands for the cultivation of all kinds of trees, fruits or other agricultural products. The capital stock of the company is \$2,500, and the amount paid in is said to be \$1,000. The corporators are John R. Parry, of Parry, N. J.; W. H. Corson, Plymouth Center, Pa.; Edwin R. Bell, Haddonfield; John J. Albertson, Magnolia, N. J.; and Israel Robert, Moorestown.

RACINE, Wis.—F. Fontaine succeeded both the Fontaine Floral Co. and Julius Martins some years ago, and the list as given in the directory is correct, but catalogues and circulars still come to the old addresses. Those having the last two names on their mailing list would save something by erasing them.

CONSHOHOCKEN, PA.—In your directory list of florists here Thomas Wilson should be changed to Edwin T. Wilson.



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and
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THE AMERICAN FLORIST



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Vol. VI.

CHICAGO AND NEW YORK, FEBRUARY 5, 1891.

No. 140

THE AMERICAN FLORIST

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54 La Salle Street, CHICAGO.

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American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LINDSAY, Chestnut Hill, Philadelphia, Pa., secretary.

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WE HAVE in hand and shall soon publish a very interesting article on the arrangement of flowers with respect to color.

WE ARE advised by Messrs. Pitcher & Manda, of the United States Nurseries, Short Hills, N. J., that they will give an orchid exhibition at the nurseries February 9th to 14th inclusive.



Carnation Lamborn.

When I wrote the plain, simple article on this carnation which appeared in the FLORIST of January 8th I was entirely unprepared for the cyclone of criticism which meets my eye in the issue of the FLORIST just now received. But as Mr. Lombard says "just and fair criticism helps to greater efforts" I will consider myself on the defensive and reply to his criticisms as briefly as possible. In the first place I will say to Mr. Lombard that the article of mine referred to was as stated at its commencement, a reply to certain letters which I had received, and which the editor of the FLORIST was good enough to allow me to answer all at once in that way. The article was intended as a plain and simple statement of facts as they had occurred to me, I had not the least idea of making a boast that the 10,000 Lamborn flowers that I had gathered, sold, or used in a certain time, was an extraordinary, large, or even an ordinary number to gather in that time, and I will defy Mr. Lombard or any other critic to place a finger on a single sentence in that article which can honestly be so construed. The main point of my article of the 8th was to define, and my chief object was to illustrate as clearly as possible the very different circumstances under which I was placed this year in connection with my business when gathering sufficient Lamborn carnation flowers to meet all the requirements of my business as compared with other seasons when depending upon Hinz's White, and being obliged to purchase large numbers of white carnations between the crops at prices ranging from three to four dollars per hundred. If Mr. Lombard will spare a few moments to compute the difference he will find that it amounts to something more substantial than the difference between mine and an ordinary good gathering of carnation flowers.

But there is another and still more important fact not yet mentioned to which I will call Mr. Lombard's attention, and which I think will entirely change his views on this subject, and which I also think will at once convince so reasonable a gentleman as he appears to be that the idea of boast which he and other critics seem determined to entertain are entirely absent, and that is the fact that during the time my Lamborn carnations furnished me with the 10,000 flowers they

also supplied me with 35,000 cuttings. Now, Mr. Lombard knows perfectly well that every cutting taken from so fine a growing carnation as Lamborn means a flower, and that the 35,000 cuttings added to the 10,000 flowers will count up rapidly in favor of the plants, especially as 15,000 of the cuttings have already been rooted, shipped and converted into cash, and the balance already in the sand, and many of them nearly ready for shipment. Now, I think Mr. Lombard and other critics will agree that if boast was my object I should not have omitted such an important item in my estimate as the 35,000 cuttings. Again my plants were small, so small in fact that when placed in the house but little was expected from them. Mr. Lombard seems to think my statement that my Lamborn flowers netted me \$50 per 1000 is considered a remarkable one by growers around Boston. If my article of January 8 is referred to it will be noticed that nearly all the flowers mentioned were sold at retail in my own store, that it had no reference whatever to prices obtained by growers from the commission dealers. Is Mr. Lombard prepared to say that good white carnation flowers will not command five cents each at retail in Boston?

In reply to Mr. Holley I would say that I think it would be a great mistake to throw out Hinz's White carnation where it does as well as he states he saw it doing with Mr. Rud. of Newark. But Mr. Holley's visit to my place would at once satisfy him that it would be inadvisable for me to grow Hinz's. My explanation to Mr. Lombard should be equally applicable to Mr. Wm. F. Bassett, of Hammon, N. J., and Mr. J. C. Hoag, of Akron, Ohio. They seem to have caught the same idea and set me down as a boaster. They are respectfully referred to the article in question to see if their conclusions are sustained.

H. E. CHITTY.

Paterson, N. J., Jan. 24, '91.

Number of Blooms Cut.

I have been very much interested by the several articles in the issue for January 22 in reference to Mr. Chitty's article in the issue of January 8 on the Lamborn carnation, but it occurs to me that a very important item has been overlooked in the discussion, and that is the number of square feet of bench room the plants occupy. The comparison of records is not fair unless this taken into consideration. And this applies not only to carnations, but to roses and violets. Several of the records given in the FLORIST have been incomplete in this respect. The value of the variety to the commercial grower can best be determined by the returns per square foot of space occupied.

Any one who has grown Lamborn

knows that he can plant almost twice as many of this variety in a given space than of any of the stronger growing carnations. Taking this into consideration, Mr. Chitty's record might show to better advantage. Any one examining the illustration of his new house, will find his Lamborns pretty well budded.

I do not wish it to be understood that I endorse Lamborn, for the contrary is the case, but I mention the point named to show that we can not judge accurately of the productiveness of any variety simply by the average number of blooms cut from each plant, but must have the average number of blooms cut from each square foot of space occupied.

I admit that Lamborn is a fine carnation, but I fail to get as many blooms from it as from an equal space of either Swayne or Silver Spray. As to keeping qualities I consider Swayne far ahead of any other white carnation that we have. Silver Spray has two strong points, long stiff stems and coming more double and in finer form in hot weather than Hinz's White.

I append a record of blooms cut from Wm. Swayne and Silver Spray. My bench of Swayne is still blooming at the rate of 300 or 400 a week, and the plants of Silver Spray are a mass of buds in different stages of development. I expect to cut a larger number of blooms the present month than during any of the preceding months. I will also send you a complete record of my other varieties after the season is over, some time in July:

WM. SWAYNE.

Number of plants, 530; number of square feet they occupied, 308; average plants per square foot, 1.7.

SHORT. LONG.

Number of blooms cut from		
Oct. 17 to Nov. 1.....	796	161
Number of blooms cut during		
November.....	1,285	1,283
Number of blooms cut during		
December.....	693	1,394
Total.....	2,774	2,838
Grand total.....	5,612	
Average bloom per plant.....	10.6	
" " " sq. ft.....	18.22	

SILVER SPRAY.

Number plants, 332; number of square feet, 227.5; average number of plants per square foot, 1.4.

SHORT. LONG.

Number of blooms cut from		
Oct. 17 to Nov. 1.....	140	320
Number of blooms cut Nov.....	90	734
" " " Dec.....	24	760
Total.....	254	1,814
Grand total.....	2,068	
Average bloom per plant.....	6.22	
" " " sq. ft.....	9.09	

NOTE.—The fractions have been carried out in each case until it required the annexing of two more ciphers, so in each case we can do without the plus.

R. WITTERSTAETTER.

Sedamsville, O.

Keeping Qualities of Lamborn.

In reply to the question asked by G. P. Rawson as to the keeping quality of Lamborn I can say that when shown at the flower show in Orange last November it did not appear to be a good keeper. On the second day of the show it had a stale, droopy look, while Lizzie McGowan was as fresh as when cut, and on the third and last day was still good enough to go to New York for exhibition. A. B.

Carnation Mrs. Fisher.

In issue before last Mr. Holley (page 379) inquires as to the qualities of the above carnation. I have known it during the past three years—since its introduction in fact by Mr. Fisher. I did not, however, commence growing it myself until last year; previous to that, however, I had satisfied myself that it was a carnation of no ordinary merit and I am glad to say that my personal experience of it in my own establishment has greatly tended to advance it in my favor.

I have at the present time a considerable batch of this variety planted both in solid beds and benches, it is in each case giving me equally satisfactory results. It has several sterling qualities which are indispensable in a carnation. First, it is a very good grower. Second, it is very floriferous, and third, the individual flowers are of good size, good substance and can invariably be cut with long stems; add to these good qualities the fact that it stands shipping well (which is more than can be said of Lamborn) and I think your correspondent will be more than justified in giving this variety a fair trial.

For my own part I honestly consider it the best white carnation on the market, if its many good qualities are taken into consideration. It has given me a never ending succession of bloom since the beginning of October, and to quote Mr. Chitty when writing of his pet variety Lamborn, "to look at the bed you would hardly suppose a flower had been cut from it."

WILLIAM NICHOLSON.

Framingham, Mass., Jan. 29.

In an article in your paper of the 22nd inst., Mr. E. Holley asks about carnation Mrs. Fisher. I have grown within the last four years a dozen or more varieties of white carnations, but have not found one that promised as well as the above variety. The flowers are large, full and very fragrant, and from present indications lots of them. One point in its favor is its thoroughly remountant habit. My plants while maturing a good crop of flowers have also grown a still larger crop of buds, which are now coming in without any break in the crop.

J. H. POND.

Foxboro, Mass., Jan. 30.

In your issue of the 22d of January Mr. E. Holley, of Hudson, New York, makes inquiry about Mrs. Fisher carnation. I have grown carnations for twenty years for Boston market, both of the old and new varieties; am this year flowering 2,200 plants of Mrs. Fisher, and have never grown but one variety which can compare with it in size of flower and freedom of bloom, and that, the old Boule de Nègre when it was at its best, fifteen years ago.

F. DONOVAN.

Natick, Mass., Jan. 26, 1891.

Silver Spray and Lamborn.

We still find Silver Spray the best white variety we have ever grown. We esteem Lamborn very highly and get some very fine blooms from it, but can cut about three times as many long stemmed blooms of Silver Spray from the same space and in the same length of time.

GEO. HANCOCK.

Grand Haven, Mich.

The Carnation as a Pot Plant.

We believe that the possibilities of the carnation as a pot plant have not been

fully realized by many in the trade. Plants such as that shown in the accompanying illustration would undoubtedly sell well at good prices and give much satisfaction to the purchasers.

A New Remedy for Mildew and Black Spot.

In looking up the nature of the "sulphur and lime mixture" which has long been used as a remedy and preventive of mildew in greenhouse culture of plants, after consulting every source of information I could, in the various chemistries, encyclopedias of chemistry and encyclopedias within my reach, and finding only brief mention of it I went to the druggist with my query, and he kindly loaned me the United States dispensary for a few hours. In it I found a formula for making the sulphur and lime mixture very similar to that given in Henderson's Practical floriculture, and a description of its use in medicine. The remark that it contained hypo sulphite of lime as the active element led me to look up other hypo sulphites, and I found under "Hypo sulphite of soda" the following: "Hypo sulphite of soda is a very powerful poison to fungi and other low organic forms." It then went on to speak of its use in medicine in the treatment of fungoid diseases. This seemed to be just the information I wanted. I purchased a quarter of a pound to try it. This was in October last, just when mildew and black spot was appearing on the chrysanthemums and carnations.

I have used the sulphur and lime mixture successfully for many years against mildew. The objection to it is, it is not readily obtained. Druggists do not keep it and it is troublesome to prepare with the appliances usually at the command of the florist. I had a small quantity of it. I began using this on half the greenhouse and the hypo sulphite on the other half, dissolving half an ounce to a gallon of water and applying with a spraying pump.

Both remedies seemed equally efficient. I applied once a week until colder weather required constant firing and the "mildew season" was over.

I do not remember seeing this salt recommended for mildew anywhere. It is worth trying for all the various forms of fungus which destroy plant growth of every sort. It has these advantages: First, it is easily obtainable, every druggist keeps it. Second, it is cheap, as it is used in large quantities in the arts. Third, it is not poisonous. Fourth, it makes a clear solution and leaves little or no stain when it dries off. As I grow carnations chiefly I have no opportunity to test its value on other plants. I hope that others may try it on roses and violets, on grape vines, plum trees, potatoes, gooseberries and all plants infested with fungoid diseases.

SEWALL FISHER.

Framingham, Mass.

Crimums and Pancratiums.

A Florida correspondent writes: "We think they, the crimums especially, are very showy plants. Large bulbs make fine specimen plants out of doors. The cut blooms are very nice used in decorating. Both kinds have a large amount of foliage, which gives a fine setting to the strong flower stalks with their crown of many blooms."

While crimums, pancratiums, hymenocallis and allied plants find more or less favor in private conservatories they are



THE CARNATION AS A POT PLANT

not much used in commercial establishments. But there is a good time coming. Florists who grow a miscellaneous assortment of plants usually carry a few varieties of these and advertise them under the name of spider lily. While excellent for our Southern and Pacific gardens they are not hardy in the North, and this weighs against their popularity; further, as they are mostly summer-blooming they are not esteemed as winter window plants; also, the individual blooms are of brief duration. *Crimum amabile* and *C. Asiatum* are noble evergreen plants for large conservatories, but *C. ornatum* is one of the finest of all for greenhouse use. There are some very pretty pancratiums and crinums indigenous to the Gulf coast and the West Indies and cultivated in Southern gardens. In the North we treat the *hymenocallis* section as dry bulbs, that is we plant them out in summer and lift and keep them dry over winter, and they are very satisfactory plants indeed. W. F.

Aristolochia Ornithocephala.

A southern reader writes: "Is *Aristolochia ornithocephala* hardy? Is it a vine or a bush? I received seeds from Honduras. Is the flower somewhat like any of the other *aristolochias*?"

No, it is not hardy in Central Alabama. It is a long running vine. *Aristolochia*

flowers are unlike those of any other plant, and while the blossoms of the several species have a family likeness they are quite distinct from each other. W. F.

The Society of Indiana Florists.

The Society of Indiana Florists met at Lafayette, Ind. on the afternoon of January 21. A number of the live men of the state were there, but they comprised only a small number compared to those who should have been present to help along in the good work. Mr. M. A. Hunt of Terre Haute, president of the society, delivered a very instructive and suggestive paper. The address contained words of warning and caution drawn from the present condition of the flower markets throughout the country. The thoughts and advice given may well be heeded. The reports of our secretary and treasurer were approved; they showing a satisfactory condition of the society both financially and otherwise.

The subject of holding another chrysanthemum show drew out comments, criticisms and a general interchange of thought and led the society to intrust the holding and management of the next chrysanthemum show to a committee who voluntarily assume all financial responsibility for the same. It is proposed that a finer and much more extensive

exhibit shall be made the coming November than on any past occasion. New varieties of chrysanthemums, roses and all other florists' flowers shall have special premiums and places assigned them. It is proposed that a special premium of considerable size shall be given for the best exhibit tending to bring out the really meritorious varieties that are to be introduced during the spring of '91. This will give the raisers and introducers of the new varieties a good opportunity to display the sorts which are set forth with such fine word painting in the catalogues and lists at the present time. The discussion and the time given to matters pertaining to the coming show will undoubtedly bear fruit. As an earnest of what is proposed, a number at once agreed to produce and exhibit enough plants to warrant a superior exhibit.

In the evening Professor Joseph Harter read a most interesting paper on the diseases of the carnation, which was abundantly illustrated and made plain by numerous specimens showing the disease in its different stages of development. We think he proved conclusively to those present that the germ which destroyed our carnations was a minute microbe which entered the leaves and when once inside the plant structure, destroyed the tissues of the plant. The experiments related cover the past two years—and are still in progress. The essayist has carefully read the *AMERICAN FLORIST* and is cognizant of all that has appeared in its columns. We hope to see a careful setting forth in the columns of the *AMERICAN FLORIST* when the professor has completed his studies on the subject.

Mr. Fred Dörner followed the professor with an equally interesting paper on carnations, their culture and best varieties. Mr. Dörner makes the broad statement that carnations the first few years of their existence will produce double the quantity of flowers they will in the last half, and that six to eight years is the maximum length of time of a carnation's usefulness. This view is held by M. Carle of Lyon, France, one of the foremost cultivators of carnations in Europe. More might be quoted from Mr. Dörner's paper but as his views are to be set forth in a more elaborate paper in the near future before a gathering of florists nothing further need be said at present.

Mr. Pierre Van Landeghem of Purdue, read a paper on diseases of the rose as affecting plants in the open ground, showing the peculiar and insidious manner in which fungoid diseases destroy the usefulness of our fair queen in the garden. All the above papers were discussed and questions propounded, which added much interest to the session.

The meeting convened Thursday a. m., the principal business being the election of officers which resulted as follows: Frederick Dörner, Lafayette, president; B. L. Auger, Fort Wayne, vice-president; Wm. G. Bertermann, Indianapolis, secretary; John Hartie, Indianapolis, assistant secretary; F. J. Duntingdon, Indianapolis, treasurer. The meeting voted to hold its next annual business meeting at Indianapolis next November subject to the call of the president.

Among the exhibits Mr. F. Dörner had vases of all his recently raised new carnations, including those flowering now for the first time. They were greatly admired on account of their large size and sturdy, vigorous growth. *Cyclantherum* and orchids by F. T. McCadden of Cincinnati. A fine array of bulbous stuff was shown by Bertermann Bros., Indianapolis, all nicely done. A dwarf perpetual

flowering scarlet salvia was shown by Mr. John Hartig. This is a plant of much promise for bedding on account of its very dense, sturdy growth and free blooming qualities.

A drive to Purdue University, and an inspection of the U. S. Experimental Station and the greenhouses of the university was much enjoyed. The members of the society were the recipients of a splendid banquet set at the house of Mr. and Mrs. Dornier, and to which all present were ample justice. After the good things so generously provided by our host and hostess had been disposed of, toasts, and a general good time was had. One and all say, long life to Mr. and Mrs. Dornier and their genial family of boys and girls.

E. G. HILL.

The Outlook.

In his address to the Society of Indiana Florists, at its recent session, President M. A. Hunt made some timely and pertinent comments on the present outlook for the trade. We print below some extracts from the latter part of the address, the opening paragraph being to a review of the trade in the west for the last twenty-five years.

"Holiday sales last season, but more notably those of the present year, point unmistakably to the fact that some change will have to be made in our methods if we would avoid overproduction and consequent stagnation. How shall we forecast the future in order to avoid the shoals upon which so many in other callings have stranded within the past few months.

"It is useless to lay down a code of rules for our government, in fact, I doubt if any recommendations even will be heeded by those in the mad rush of competition. The commercial florists of our land have caught the 'American spirit,' are imbued and permeated with the push and energy of the day, in fact, the very force of habit that has grown upon them through years of active business life, constantly impells them to reach out after all the trade, and their individual powers of digestion and assimilation seem to be unlimited. This, however, will not prevent a few suggestions, which, could they be generally heeded and adopted, would, I feel sure, secure to us future prosperity individually and collectively.

"The first suggestion I would make is this: Cease to grow for a prospective or speculative demand. Let every grower be content to raise only such an amount will supply his established trade. In this way overproduction will be held in abeyance, and a healthy demand will be everywhere present.

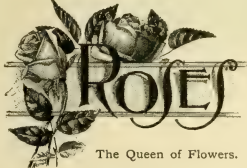
"Second. The foregoing proposition assumes that no more money be invested in glass until such time as the demand exceeds our individual producing capacity. Put your yearly profits instead into some safe security entirely foreign to the business you pursue, and thus establish an income independent of the ups and downs of your own. In making this investment be satisfied with a reasonable rate of interest, based on first-class security, rather than seek higher rates, speculative values and probable losses.

"Third. Instead of bending every energy to produce as we have in the past, let us unitedly work to create a greater demand and to do this allow me to suggest, first, that as individual growers we raise the standard of excellence of our product, whatever it may be; let quality, not quantity, be our aim. Again, with the very best that can be produced in hand, let us all unite, east, west, north and south, in cities, villages, communities,

everywhere, where flowers are found and known, to educate the people to a greater appreciation of and consequent use of what we already love, a dormant love of which is found in every human breast.

"To this end, let those connected with city exhibitions redouble their efforts to make them a success, and never give up or yield to discouragement, even if the receipts do not meet expenses; it is only a species of advertising, then which nothing pays better in the end, but it must be persisted in from year to year, systematically, enthusiastically, and with financial support if need be to make receipts and expenses balance. This done, results aimed at are as sure to follow as we are sure of success in any educational enterprise. In States where there are no large cities, be sure and make all the showing the season will admit of at your state and county fairs, and in addition to this, if those residing in each county would unite to make an exhibit of chrysanthemums at their county seat, adding such plants or flowers as can be well shown at that time and will add to the general interest, much may in this way be accomplished by way of educating the people to feel they need and must have the best our art produces.

"Above all, never fail to use every means at your command to increase the interest in your own community; even if you have no one to join with you, do not neglect your opportunity for that reason, as in this instance you have the assurance to begin with that there will be no discords, and that you will have your own way in all things, an exceedingly satisfactory condition of things to some minds. Persist, then, in making the most of every opportunity, results will follow, and the honor and profit will all be your own."



The Queen of Flowers.

By JOHN N. MAY.

[Read before the Massachusetts Horticultural Society, January 24, 1894.]

Having been requested by your honorable committee to read a paper on this subject, I have in the following endeavored to say enough at any rate, to open a discussion whereby your essayist trusts to learn more than he can ever hope to teach by anything that can be said. As this subject has been so well and ably presented to this body so many times before, by men much better informed and more able to present it to you intelligently than myself, I feel that I am almost an interloper here, and would certainly much rather be a listener than a talker on the subject; however, I will give my experience with the rose, and trust you will be lenient with my criticisms.

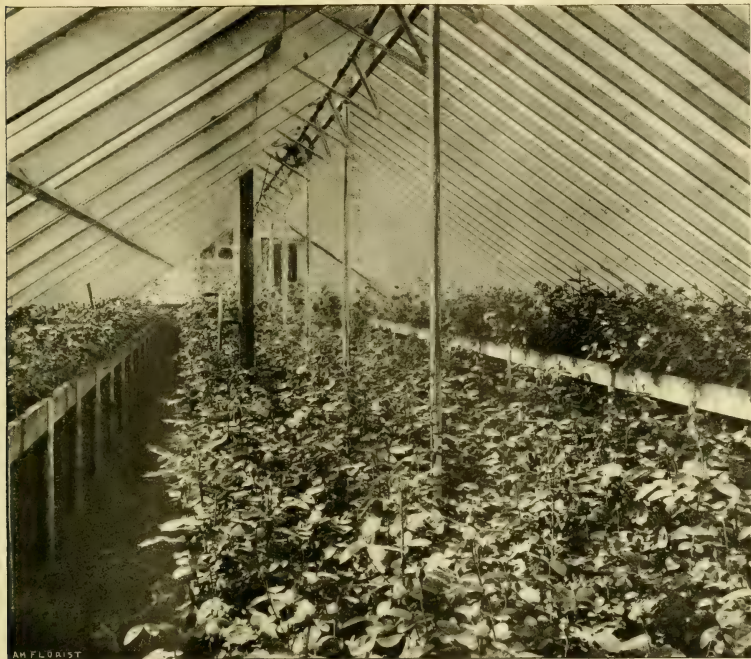
This, the Queen of all flowers, has always reigned supreme for me, and will till the end of time. My first experience with the rose dates from the time I was about 8½ years old, when I borrowed (without permission) three eyes of *Souvenir de la Malmaison*, then a new rose. I am sorry to have to confess it at this late day, but a clear confession is good for the soul, so it is said, anyway, having watched an elder brother doing

considerable budding, and wishing to try my hand at it I borrowed, as above stated, three eyes from my father's garden and took them to a neighboring hedge where I found a wild rose on which I budded them, one of which grew and the next season produced three fine flowers, and from that day on the rose (and this variety in particular) has always held a charm for me.

During all these years I have seen many, very many changes in the rose, though some of the varieties that were then in their glory have not yet been eclipsed and still retain their places in the front rank. Among many I may mention General Jacqueminot, Giant des Batailles, and many others too numerous to mention here. Among the tea roses, Niphetos, Lamarque, Gloire de Dijon and others still rank as first favorites; the same may be said of all the other branches of this family. But no one can gainsay that there are not many great improvements in the family, introduced within the last ten or twenty years; take, for instance, the magnificent Ulrich Brunner, Mrs. John Laing, Earl of Dufferin, T. W. Girdlestone, and many others of the same family. Among the teas, the most graceful of all, combining as it does, elegance of form, beautiful color and fragrance, stands pre-eminently Catherine Mermet, and the offspring the Bride, which to-day is recognized all over the civilized world as the finest white tea rose in cultivation; and of this year's introduction the glorious Waban, now before you, and its mother and sister grown and produced at the celebrated Waban Conservatories here in your own state, which clearly demonstrates the fact that the cultivation of the rose has wonderfully advanced within the last decade.

It may not be out of place at this time to give a few remarks on the cultivation of the rose here. Twenty years ago the principal roses grown for our markets were Bon Silene, Safrano, Lamarque and a few others of like character. The only roses of any size then grown were Marechal Niel and Cornelia Cook, to-day they are almost entirely supplanted by much superior varieties, such as you now see before you, and many others of a like size and beauty. To attain this end considerable skill has been brought to bear on their cultivation. Twenty years ago possibly five thousand roses per day was the limit of the supply for New York city, now as many as fifty thousand roses per day can often be found there and, according to my own estimate based on the most careful calculation, I think I am quite within the limit to say that often it reaches in the spring of the year to nearly one hundred thousand per day, which speaks volumes in itself for the growth, advancement, refinement in taste and development of horticulture. To meet the demands of the public many changes in the cultivation have been brought about; where with the old system one rose was cut ten at the present time are cut from the same space. Perhaps you will ask how this has been brought about, my answer is, largely by superior cultivation. Formerly they were all grown in the solid bed of the greenhouse, now they are grown on raised benches, beds, etc., and with the greatly improved style of greenhouses now at the command of the grower they are enabled to produce large quantities with comparatively little expense to what they formerly did.

When I began cultivating roses under this system many growers predicted failure, to-day 90 per cent of the florists in this country are growing their roses on



HOUSE OF HYBRID ROSES AT MR. J. N. MAY'S

that principle, with, of course, some modifications which experience has taught. It was formerly the practice to plant a house of tea roses, grow them on for years till they actually died from overwork; now the general practice is to replant fine, healthy, new stock every year, or, at most, every two years; originally the prevailing idea was that the roses must have a deep rich border ranging from 12 to 24 inches deep to produce good roses; now the finest roses in the country are produced on benches, etc., with from 2½ to 4 inches of soil.

To keep plants in such a shallow bench constantly bearing they must, of course, have liberal treatment; after they are planted, say in July, and get fairly started into growth they need a mulching of the best manure they can have. This induces surface root action, which roots should never be disturbed, and in the course of eight or ten weeks the plants will have absorbed the above coat of mulching. Our practice is to then give a light dressing of pure fine ground bone, covering the same with another thin coat of manure; this is feeding the plants where it will do the most good and at the same time keep up their roots where they get all the benefit of the fresh air circulating through

the house. This process is repeated as often as required, and where the plants are growing very strong careful application of other stimulants, such as liquid manure, nitrate of soda, etc., is of great benefit to them, providing, of course, due care is used in its application. To apply such strong stimulants injudiciously simply means ruin not only to the flowers but the plants also. I do not hesitate to say that more plants have been killed by overfeeding than all other causes put together. One thing should always be borne in mind in reference to plant life, and that is that they are almost identical to animal life so far as their requirements go. To maintain a plant in health and vigor it requires careful and judicious feeding, just as an animal does, and the harder it works the more care it requires. Those who treat their plants or animals otherwise than reasonably will pay dear for their pains and reap the harvest for which they have sown.

Possibly some may doubt the soundness of such a doctrine and say, as many have done to me, "How can you reconcile this statement with our practice of growing roses in the open ground where we use immense quantities of manure, and the more we use the better our roses grow

and bloom?" Very true, they do, but the conditions are so totally different that there can be no comparison whatever. In the open ground the action of the air, the wonderful power of absorption of the soil of unlimited depth, dew by night, rains and sun by day, all tend to produce such a vast difference to the conditions of a greenhouse where every drop of water or particle of manure has to be brought into direct contact with the roots of the plants that it would seem almost an absurdity to make any comparison whatever.

For the successful cultivation of the rose under glass there are a few simple rules to follow: First, to procure a suitable soil, which should be, if possible, fresh sod from an old pasture; that having plenty of grass root fibre in it is generally the best. If very heavy the addition of a liberal proportion of sharp sand will improve it, but if of very light sandy nature the addition of some of a clay nature will for most roses be beneficial. When carting together in the spring mix with it one part good clean cow manure to six, eight or ten of soil according to quality of the soil. Turn it over two or three times and it is ready to put into the rose house.

The next is good, strong, clean and healthy plant, for without such no one need expect the best results; and the next is to keep the house, after the roses are planted, in a good condition as long as they are in it, which means all the year round. This is more important than many suppose, as no plant can reasonably be expected to thrive where dirt, mud and decaying vegetable matter is allowed to lay unmolested for weeks or months together.

And, lastly, the watering and general care of the plants. On the subject of watering there is a wide diversity of opinion, mainly brought about by the different conditions of soil. The only safe guide is a careful study of the nature of the soil one has to deal with, and use water in proportion to its requirements. As a general rule a rose in full growth should never be allowed to become dust dry, neither should it be flooded with water till it becomes almost the nature of mud, but for nearly all soils it is better to water the plants immediately the soil shows the least indication of getting solid or turning slightly light in color.

For the general care and management I am afraid I should tire you all if I even attempted to describe it in detail, but even if I did not do that I think it entirely unnecessary here, as much so as it would be for a stranger to go to Rome and tell the Romans what to do; but, in conclusion permit me to say that although I think and honestly believe that in the past twenty years greater strides have been made in the cultivation of the rose than was ever done in double that time during previous years, yet I as earnestly think much greater advancement will be made in the next ten years than has been done in the past twenty. Evidence of this is very clear to any one visiting the different parts of this country, and I trust after we have all passed away the "Queen of Flowers" will still have as great a charm for our successors as it has for us. Long may she reign supreme, and this hospitable city remain the seat of her throne to which pilgrims will ever come from all over this broad land to do homage to her majesty in all her golden glory!



Calanthes for Cut Flowers.

Among all the orchids perhaps none are more useful than the calanthe, coming in flower after most of the glory of the chrysanthemum has waned, and in the dull months and holiday time they come in very useful. Spikes of Veitchii combined with fronds of *Adiantum Farleyense* or the dark green of the climbing *Asparagus plumosa* make them fine for room or table decoration, as well as for the conservatory. They are very lasting and will keep longer in good condition than most any other flower. Where they can be grown by the hundred in masses nothing will make so rich a display.

On a bench 29½ feet by 2½ feet Mr. McWilliam, gardener for Mrs. Liscil, Whitinsville, Mass., had this last season 106 pots or plants averaging 3 spikes each, or 318 not counting small ones. The spikes were from 2½ to 4½ feet in length, 25 to 48 perfect flowers to the

spike, average 36. He has four varieties of Veitchii of various shades of pink. The best is compacta; the flowers of this are set very close on the stem. Two white ones, *Vestita luteo* and *Vestita rubro-occulata*, the yellow and red eyed sorts, contrast excellently with Veitchii. These three are of the dry bulb species and require a season of rest after flowering. *Vestita occlusata gigantea* and *Regnierii* also grown here are late following sorts; they are just now coming in while the former three are about over, thus they prolong the season of bloom. They partake more of the character of the evergreen species; not long after flowering they will want to begin growth again for another season.

In a commercial way the calanthe ought to stand high, owing as stated above to its grand decorative qualities and its merit of long standing in good condition; also for flowering in the dull winter time and at the holidays. Enterprising florists near the large flower markets would do well to increase their stock; hundreds of spikes could be disposed of which would bring in the always needed dollars.

Calanthes are as easy to manage as many other things that are grown by the houseful; if they get the proper treatment and attention will do well. Being natives of the warm eastern countries they need to be given a temperature accordingly, even when at rest the bulbs ought to be kept perfectly warm and dry till they again show signs of making growth.

January 26.

W. S.

Fine Phalaenopsis.

The phalaenopsis at the Rose Hill Nurseries, New Rochelle, N. Y., are now approaching the height of their beauty. Among the more conspicuous ones at present in flower are *P. amabilis*, *P. Schilleriana*, *P. Stewardiana* and *P. casta*. The first three named have leaves from three to five inches in width and from eight to fifteen inches long, and each plant has from four to seven leaves. They are the wonder of visitors. The plants are in small cedar baskets and this is here considered an essential point in their culture.

A. J. E.

The Society of American Florists.

When the Society of American Florists was organized and set going under so favorable auspices, I, and doubtless many others, were flattered by the idea that now we would have an educator, a something that would bring to the front our business and thus entitle us to that respect, and accord to us that dignity, that is everywhere accredited to all respectable trades or professions. For is not ours a most ennobling and elevating avocation? Have we not to do with the beautiful in nature as well as art?

Our meetings were well attended and were at first seasons of instruction and benefit to all. The various subjects belonging to our craft were brought to our notice, and the wise and experienced discussed them in an interesting and instructive manner. The various sessions of the meetings were held with decorum and all things gave promise of a realization of that which many of us hoped for. I trust the inceptors of this association had in mind not only that we all might be taught how best to grow carnations, violets, roses or chrysanthemums, but also how we might become better men, in the fullest sense of the term, honest in all our dealings and intercourse with our fellow men.

Now I am not about to say that the meetings are not as largely attended or the different sessions are not held in harmony and with dignity or that those who do attend are not instructed, but I do say that taking it all in all the association is not maintaining its dignity and character as some were led to believe it would. It seems as if the whole thing begins to take on the nature of festive occasions and that each place that may be selected for the next ensuing meeting tries to out do in the way of entertainment, the last one; that so much time is being taken up by excursions and sight-seeing that the whole army of florists get into a demoralized condition and pay but little attention to the business proper that comes before the society, and often when an important paper is being read, the preparation and writing of which has taken much time and patience of the author, scarce a hundred are present to attend or to join in the often very interesting discussions. All will concede that this is not very flattering or complimentary to the writer's ability, and certainly not very encouraging for future assysts.

I became a member of this association for the benefit I hoped to obtain by associating with the florists of America. I desired to be benefited in my business, in learning how to grow better plants and more beautiful flowers, I hoped to be enlarged and improved in every way. I believe many others joined the association from a similar desire. I am not about to say that I or not benefited, for I am, and that largely, and I am glad of it, and I still hope to be more so in every way that is right and laudable.

I did not join the association to eat ham sandwiches, lobster salad, or ices. All are very well in their places, and I like them all. But fellow members, you who were at the Boston meeting, do you remember how like a wet blanket it fell over the few who were in the hall when our President, Mr. Jordan, announced that "naming the place for our next meeting is now in order." It was as still as death for a short time. Why? Because no city, or the representative of any city, felt like inviting the association to hold its next meeting there. Why? Because it has grown to be such a heavy tax on the local florists where the meeting might be held, that none felt like urging their city for the place.

Now I am not going to say one word against the hospitality of Boston. On the contrary, I was glad the association met there, and among all I was there, I saw all I did see, and ate all the lobster salad I did, and enjoyed the society of the Boston florists. It was a delightful time and I must confess that through the courtesy of the Florist Club of Boston I had an opportunity of visiting and seeing many things that perhaps but for them I never would have had the privilege of doing, and I wish here to express my thanks to the florists of Boston for this, and especially for their kindness to me in rendering every attention and making me so comfortable while suffering from an attack of sciatic rheumatism, and I desire every one of them to accept my personal thanks. But aside from all this, I certainly think the club incurred too great an expense as well as annoyance and inconvenience to themselves in providing such elaborate entertainments. And now comes the wet blanket scene referred to above. I wanted very much to extend to the society an invitation to name my own beautifully, Minneapolis, as the place of the next meeting, but after seeing how nobly and richly Boston had



VIEW IN LINCOLN PARK, CHICAGO.

done I had no more spirit of entertainment left in me. And I doubt not there were others who felt as I did. We had nothing to show you but our Minnehaha, our Minnetonka, our big mills and our big prairies, all of which indeed would be worth seeing, but alas how could we feed you, after having been to Boston. And as there we sat, no one offering a resting place, we were about to have to rent poorer quarters. But just then our Canadian neighbors seeing our dilemma came to our rescue and so the meeting will be held in Toronto next August. May the sturdy Canadians set us an example of economy and frugality, and give us oat meal porridge. I hope they will also be sure to give us nothing stronger than tea or coffee to drink. R. J. MENDENHALL, Minneapolis, Minn.

View in Lincoln Park, Chicago.

The illustration is from a photograph taken last summer and shows in the foreground one of the numerous vases with which the park is ornamented in the summer time. As will be noted the principal vines used in filling the vase were tropaeolums. These are very extensively used here for this purpose and for a large showy vase they are remarkably effective.

The rapidity with which they attain to an effective size and condition is also in their favor. We believe that the illustration as a whole will be appreciated as a beautiful picture.

New York.

This has been one of the busiest weeks this season, and the near future promises to be equally as good. The Astor ball on Monday night was a very brilliant affair; the decorations by Klunder were magnificent, an exhibition of floral art. The large hallway was lined with groups of flowering plants, clusters of *Lilium Harrisii*, banks of pink azaleas and groups of genista, between these were arranged beds of tulips, hyacinths and jonquils. At the entrance to the stairway stood a clump of orange trees bearing fruit, the doorways were arched with flowering shrubs, one being of *forssythia* blossoms, the others quince, apple, etc., the whole presenting a beautiful picture of spring. The reception room was an exotic scene. The mantel was a mass of *A. Farleyense* and cattleyas, with blocks of *phalenopsis* hanging on the sides, the fire-place being filled with *Anthurium Andreanum* and *amaryllis* to represent a blaze of fire. The

mirrors were handsomely curtained with *Asparagus tenuissimus*, which was looped with clusters of *oncidiums*. Fine vases of white lilacs and *La France* roses were placed on side cases and tables. The art gallery, which is used for dancing in, was decorated with roses, which were arranged in Roman garlands on the statuary and amongst the pictures. The balcony used by the musicians was covered with trailing vines and clusters of orchids. Supper was served on small tables in the centers of which were placed handsome baskets of *La France* roses.

Thorley, Dards and Hodgson were busy decorating the houses of the Vanderbilt family on Wednesday and Thursday for dinners, musicales and receptions. These brought a certain amount of animation into society, and many large dinners and afternoon teas followed, where Bogert, McConnell, Stump, Butler, Brower and the rest displayed their usual good taste in the table decorations.

It would need columns to describe them all. Perhaps the most novel was a table design by Stump, purporting to be a "field of flowers." On a round board five feet in diameter oats were grown on earth one inch in depth until it had the appearance of a plot of grass. Clusters of daisies, myosotis, jonquils, crocus, pansies, etc.,

were arranged amongst the grass. In the center of the design stood a fine branch of appleblossoms, the whole giving a pretty idea of "the flowers that bloom in the spring." It was very much admired by Mr. E. Asmus, Robert Bottomly and Chas. Weathered, who happened to be visiting Mr. Stump in regard to the coming exhibition.

Artists are busy on designs for the show, and judging from the manner the several committees are working and the great interest taken in it by every branch of our trade, it will be the finest exhibition ever given here. Every class of work will be represented, from the latest boutonnières and hand-bouquets to the banquet and hall decorations. Mr. Asmus proposes an opera box decoration also, a very pretty idea, and one that will surely start the fashion of decorating boxes for the opera. It is by doing such things, the holding of exhibitions, the introduction of flowers for occasions that are at present ignored, that we encourage the business, put flowers in the light of a necessity, and make the public understand that there is no pleasure so sweet (or so cheap) as the fragrant kiss of a beautiful flower.

There are many valuable prizes, including ten beautifully engraved silver cups, to be awarded in the different classes. It is expected that our Boston and Philadelphia brothers will compete for some of these prizes. The trade within easy reach of this city will do well to visit this exhibition, as the latest and best New York can do will be shown there.

There were some beautiful bouquets carried at the Carmecita Ball, at the Madison Square Garden, last night. Thorley, Scallen and Ellis were busy supplying flowers for this occasion.

The warm, spring-like weather of the past week has benefitted the business very much. Flowers added to the charms of almost every lady one met, and we notice with pleasure that it is fashionable to wear flowers on the street this spring. Violets seem to be the favorite breast bouquet, while some wear bunches of jonquils or carnations at the waistband. Others jaunt along with some beautiful rose. Violets are the most worn by gentlemen during the daytime, whilst large boutonnières of white carnations, lily of the valley, Madame Hoste rose, or gardenia (which is always preferred) are worn during the evening.

A basket filled with Erica Wilnoriana, and trimmed with "McGregor" ribbon, was quite taking. Bunches of spring flowers and flowering plants may now be seen in "society people's" windows. Let us encourage the taste.

JOHN YOUNG.

Boston.

The last week has seen a revival in the cut flower trade. The improvement seems to be general all over the country, judging by wholesale orders from other sections, and business will no doubt continue good until Lent comes in. Roses are especially in demand, although the prevailing prices are far below those of the corresponding time in previous years. There is a brisk demand for violets and carnations also. There are a few Jacus in the market, and occasionally a few Marechal Niels are to be seen.

In carnations the most generally grown variety here seems to be the Grace Wilder this season. The demand for it seems almost unlimited. A new seedling of much promise was shown at Horticultural Hall recently by Mr. Ernest E.

Fewkes. In color it is about half way between the Grace Wilder and Century. It is a round symmetrical flower, nicely fringed, and in the samples exhibited there was no sign of bursting. In fragrance it is phenomenal, being decidedly the most highly perfumed pink ever shown here.

Another new carnation of promise is a seedling owned by Mr. R. T. Lombard. It is yellow, a strong handsome flower, and in all probability will soon become one of the leading market varieties.

Double daffodils seem to be in great demand this year. They sell more readily than the single trumpets and bring a better price. Tulips do not sell as they did a few winters ago. Freesias are very abundant and prices low.

In many of the florists' windows are to be seen Chinese primroses in great abundance. As a house plant they seem to be very popular.

Mr. J. N. May and Mr. Robt. Craig paid a flying visit to Boston this week to see the Waban rose growing. There have been quite a number of visitors from a distance to Natick on this same errand. The general verdict is that the picture does not do the rose full justice.

A number of the florist friends of Mr. E. J. Welch made a sudden call upon that gentleman at his residence in Dorchester this week, the immediate object of the visit being a desire to congratulate him upon his recent marriage. It is hardly necessary to remark that their object was accomplished and the whole affair was a glorious success.

W. J. S.

Cleveland.

Holiday trade was good and the florists were correspondingly happy. The warm weather just before Christmas supplied us with plenty of flowers of good quality, but the demand fully equalled the supply. One thing is sure it does not pay to buy too largely, though one of our florists says he bought \$600 worth of flowers besides using all that he cut from 90,000 feet of glass.

The sale of "greens" was fully up to last year. Holly and ground pine were both sold out clean and were of much better quality than last year. Good holly wreaths with plenty of berries sold at 50 cents retail and quick sales at that, supply limited and demand active. One feature of this season's work was the demand for a better class of holly and green work.

Herman A. Hart, out on Detroit street, looks trim and neat, a fine healthy house of primulas have some new shades and colors among them. This place is successfully heated by steam.

At J. M. Gasser's everything is in excellent order. He is making a number of experiments this season, and judging from results they are successful. In a number of houses a change has been made to overhead heating, Mr. G. claims that it saves labor both in watering and, in case of an accident, the accessibility of the pipes. Under the benches it often being a most difficult and back breaking matter to get at them.

He has also adopted the solid bed principle. In these houses which are 100x22 feet the beds are raised a few inches above the walks, 2-inch drain tile are placed 8 or 10 inches apart, earth to the depth of 5 inches placed on top of these, into which the carnations are planted. Mr. G. has one house of carnations 100x22, planted on benches but they do not compare at all favorably with those planted in solid beds with overhead heating. Another point I was surprised at was the distance

of the plants from the glass. The center bench was from 7 to 10 feet, and still no bad effects, no drawing, all the plants stocky and the buds as close together as they could stand.

Silver Spray for white, Harrison and Carnegie and Grace Wilder for pink, Century and E. G. Hill for scarlet and crimson, and Black Knight for dark maroon, are the leading varieties grown.

The palm house, fern house and croton houses in excellent order, the crotons being especially well colored. A fine lot of lilacs are in bloom, as also the finest house of mignonette it has ever been my good fortune to see. Mr. G. says they bring him at retail 25 cents per head. Violets were not in flower yet, but the plants looked thrifty and clean, without disease.

Mrs. Gasser, the efficient partner of Mr. G. has been seriously ill for some time, but is now improving.

A matter which has interested the local florists this past week has been a closely contested law suit in which Florist E. G. Campbell was defendant and Joe Turek plaintiff. The case has attracted considerable local attention and the daily papers gave the case more than usual space.

The plaintiff claimed \$5,000 damages for injuries received while in the employ of the defendant, through being thrown from a wagon, due to the giving way of one of the drawlamps and consequent shying of the horse and overturning of the wagon, resulting in the dislocation of plaintiff's hip joint. The defendant denied any knowledge of the defective drawlamp and introduced a bill for general repairs on the wagon as evidence that it was in safe condition. Also averring that when the plaintiff returned after the accident an examination revealed no serious bruises and for five weeks thereafter he attended to his regular duties without making any complaint, and that he had received orders to have made any small repairs necessary to the safety of the vehicle. The plaintiff admitted on the stand that the crack in the drawlamp had been called to his attention by another employe and on the ground of contributory negligence a verdict was rendered for the defendant.

C.

OBITUARY.

On the 13th of January Mr. Benjamin Coles Townsend died suddenly of heart failure at his retired home at Bay Ridge, L. I. Mr. Townsend was 73 years old and until he retired three years ago was a prominent New York business man. All his life long he was passionately devoted to floriculture, and at one time was President of the New York Horticultural Society. For some time before he died he was aware that the end was near, and last summer he expressed a wish to his family: "When I pass away smother me in roses," and his wish was gratified. A happy, gentle gentleman, to know him was to love him.

W. F.

Floriculture in the South.

I would like to add a word or two in reference to the notes from Mr. J. Morton, of Clarksville, Tenn. He is in error in his belief that there are no properly equipped rose houses here, but south of him. If Mr. M. would take a short trip to Atlanta, Ga., he could inspect such an establishment, one which I believe is destined to become at no distant day a formidable competitor of the Washington and Boston rosebud growers.

Atlanta, Ga.

Geo. HINMAN.

News Notes.

SCRANTON, PA.—Warner & McConnell have started in the nursery business here at 114 River and 928 James streets.

FT. WORTH, TEX.—The Fort Worth Nursery, Seed and Canning Co. has had very good success with roses and carnations this season. They have added a new carnation house 100x20.

PEORIA, ILL.—Matthew Cation, the florist, son of the late Wm. Cation, died January 18 from consumption, aged 32 years. He leaves a widow and one child, the latter but three weeks old.

PORTLAND, OREGON.—We have an excellent winter here in Portland. Thermometer has not been below 27° above, and it seems like spring. I picked roses in my garden this morning (Jan. 20).

COLUMBUS, IND.—A. Glenn, the nurseryman, has left town under peculiar circumstances. The Sheriff is in possession of his property. It is reported that he left to avoid arrest for attempted blackmail.

WOOSTER, O.—The Wooster Floral Club has been organized and the following officers chosen: President, L. R. Kramer; Vice-President, S. H. Boyd; Secretary, W. A. Porter; Treasurer, Ed. Seigenthaler.

WASHINGTON.—Flowers must have been very scarce, since a local florist has been obliged to buy the season's crop of cut flowers raised by Uncle Sam at the Reform School. A little "reform" seems to be needed right at headquarters.

MINNEAPOLIS.—At the 24th annual convention of the Minnesota State Horticultural Society, held in this city January 22 and 23, a resolution was passed inviting the American Association of Nurserymen to hold its next meeting in this city.

INDIANAPOLIS.—John Heidenreich, a new florist here, has built three greenhouses, 50x11 each, on Apple Gate and Morton streets. The place is heated by steam. He will grow cut flowers and plants and should be added to the list in the directory as F.

PITTSBURGH.—The Pittsburgh and Allegheny Florists' and Gardeners' Club is contemplating the erection of a club house to cost several thousand dollars. The display of orchids in bloom at the conservatories of the Allegheny Parks has attracted crowds of visitors of late.

BRISTOL, PA.—Harry Chambers has added two houses this season, one 50x10 for carnations and another 14x10 for potted plants. DeWitt Bros. have thrown out all their small boilers and 4-inch pipe and have put in a 65 H. P. return hot boiler, heating their entire plant with hot water through 1½-inch steam pipes under pressure. It works very satisfactorily.

UNION SPRINGS, ALA.—Christmas trade was good and fair prices were obtained. The demand for cut flowers exceeded the supply and we had quantities of rose buds. A. B. Strickland cut 500 rose buds from plants in the open ground on Dec. 23, and these included all the leading varieties. Some of the Beauties and Nels were very handsome and perfect. There has been no cold weather to amount to anything here, and plants in the open ground look as fresh as in the spring time.

SAN FRANCISCO.—A movement is soon to be inaugurated to make at the World's Fair at Chicago a splendid display of California flowers, pressed and mounted

as for an herbarium. The method proposed is to offer prizes in each school district of the state for the best collection gathered in that district. Each flower is to be labeled with both its popular and botanical name. After the display at Chicago the whole collection is to be presented to some educational institution or museum.

DALLAS, TEX.—Business during the holidays was not as good as last year. We had flowers shipped from Chicago and St. Louis but the high prices we had to charge in order to come out even hurt trade. Mostly loose cut flowers were called for, very few decorations this year as people are hard up. Roses retailed at from \$3 to \$5 a dozen, carnations \$1 to \$1.50, hyacinths \$1.50, violets 25 cents to 50 cents a bunch, callas 50 cents each, Harrisias 25 cents to 50 cents each. Since the holidays trade has been very poor, but is now beginning to pick up again.

St. PAUL.—August S. Swanson, the florist, made an assignment for the benefit of his creditors January 27. Assets and liabilities will probably foot up about \$9,000 or \$10,000. The main cause of the failure was the very poor business the last season in conjunction with an almost total failure of the roses, which through unfortunate circumstances failed to respond with any blooms, and thus caused him a loss of from \$2,500 to \$3,000. The failure is generally regretted among the trade here, as Mr. Swanson had many friends. An effort will be made to so arrange matters that he may continue the business and be given a chance to recover the lost ground.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven characters to a line) and will be accompanied order. Plant ads. not admitted under this head.

SITUATION WANTED—By a young married man, florist, private or commercial, or as an assistant. A. W. Box 35, Division St., Chicago, Ill.

SITUATION WANTED—As gardener, or manager of a small greenhouse by a respectable single man; honest, No. 1 reference. Address: J. L. L. Box 35, Riverside, Cook Co., Ill.

SITUATION WANTED—By a competent gardener and florist by the first of March or April. Long experience in all branches. Address: Florist, P. O. Box 60, Birmingham, Ala.

SITUATION WANTED—By March 1 by a first class gardener and florist; 12 years' experience, who at present has charge of a large private place in State. Best of references. Address, stating salary, R. F. 208, Fort Chester, N. Y.

SITUATION WANTED—By middle aged married man, no family, sober, industrious, and a first class experience in every branch of horticulture. Good indoor grape and rose grower. Best of reference. Address: ILLINOIS care American Florist.

SITUATION WANTED—By a first class florist, thoroughly competent; private or commercial. First class references: German; single; age 2 years. Only desires a chance in a more Southern or Western State. Address: A. B. care American Florist.

SITUATION WANTED—By a married man; German, as gardener in first class private or commercial place. In experience, indoor plants, grapes, roses and cut flowers. Industrious and sober. Best of references. Address: F. B. care American Florist, Chicago.

SITUATION WANTED—By March or April, as a practical gardener and florist; competent in all branches. First place preferred. I can grow roses generally, cut flowers, fruits, vegetables, also tropical plants; laying out choice gentlemen's places. 18 years' experience; age 32; in married, one plant, grapes, roses and cut flowers. Industrious and sober. Desiring to change climate. North Middle States preferred. Mention salary. Address: G. A. BOERN, 73 McGovern St., Chicago.

WANTED—One second-hand Hittings boiler No. 16 or 17. State price. Address: W. E. care American Florist.

WANTED—A first class man for cut flower trade; one who understands making up designs and floral decorations. Drawer 985, Minneapolis, Minn.

WANTED—To rent, a few greenhouses in good repair, fit for roses and carnations. No over one hour from New York City. State terms, etc. A. B. BOLAND, Yantic, Conn.

WANTED—Bookkeeper and correspondent, one who is experienced in seed and plant business. Give references. Lock box 1618, Philadelphia, Pa.

WANTED—A young man for retail store trade, who can make up floral designs, bouquets, etc. References required. Address: F. LORIST, box 123, Westwood, Ohio.

WANTED—A good store hand; one used to designing and decorating. Must have good references. Address: A. DONAGHIE, 1514 Dodge St., Omaha, Neb.

WANTED—Married man, sober and steady; experienced in greenhouse work; good wages to good address. Address: F. LORIST, 31 North High St., Columbus, Ohio.

WANTED—By May 1st, a few thousand ft. second-hand glass any size. Also some hotted ass. Address: ROBERT T. MCGURU, Wellesley Hills, Mass.

WANTED—A thorough, practical florist, to grow palms, ferns and orchids for commercial purposes. Address, giving references and wages. Drawer 985, Minneapolis, Minn.

WANTED—Assistant florist; one who can grow roses and propagate. Good references as to character and ability. Permanent place and good man. W. W. GREEN & SON, Watertown, N. Y.

WANTED—An able, working gardener, to take charge of vegetable trial grounds. Must have experience in growing plants as well as keeping records. HENRY A. DREER, Philadelphia, Pa.

WANTED—Several intelligent young florists, thoroughly conversant with general greenhouse stock. Send your resumes as well as references. MICHEL PLANT AND SEED CO., St. Louis, Mo.

WANTED—To buy any of the following: Echeveria Peacock, Pachyphytum Bracteosum, Pachyphytum Aureum. Address and price. E. care W. F. Sheridan, O. B. 80 South Water St., New York City.

WANTED—A practical, first class florist to take in his own home. Must be able to do a great much capital required—will take labor against capital. Single man preferred. Address: J. MANISTEE, Mich.

WANTED—A thorough, experienced florist, as foreman in a commercial place. Must be a reliable man and used to growing roses, etc. For cut flowers, give references and wages. Address: A. DONAGHIE, 1514 Dodge St., Omaha, Neb.

WANTED—5000 rooted geranium cuttings or any portion of that number, of good market kinds, immediately. Address, stating price and quality. E. C. WILBERT, Oak Place Greenhouses, Astor, Ohio.

WANTED—Clerk. One familiar with all the details of office work of a nursery. Must be temperate and steady. A permanent situation at good salary will be given. Address: J. T. LOVETT CO., Little Silver, N. J.

WANTED—Active business man with cash to take an interest in first class florist business, well established. Address: J. H. K. care A. B. care American Florist, Chicago.

WANTED—An active, progressive greenhouse gardener, who could find times spent in order and packing department of a large commercial place. Give references. Address: G. G. Lock Box 1618, Philadelphia.

WANTED—One or two young men to get up orders and assist in packing department in a commercial place. Address, stating salary expected and amount of experience. CHAS. A. HILGER, Innisfail Greenhouses, Springfield, Ohio.

WANTED—Gentleman, widely known in the trade 10 years, as manager of seed, plant and bulb house, desires to meet live florists, nurserymen or others, with a view to partnership. Address: 202 Broadway, New York, or room 1.

WANTED—A thoroughly first class man to take charge of hardwood, ornamental and herbaceous plants. Must have full experience and be well up in these branches. Single man preferred. Apply to J. H. K. care A. B. care American Florist, New York, stating full particulars about himself.

WANTED—A practical and experienced florist and landscape gardener. Married man with small or no family. Must be able to grow all the flowers and willing to work. Steady place for the right man. Wages \$8 per month with free house. Address: Superintendent of the National Cemetery, Vicksburg, Miss.

FOR SALE—Two greenhouses with stock of general plants. Chicago. Address: N. O. P. care American Florist, Chicago.

FOR SALE—Five greenhouses in town of 60,000, good shipping facilities, railroads leading in sixteen directions. One of the best operating for live stock, than Property free from all incumbrances. Some capital required. Address for balance: X Y Z, care American Florist, Chicago.

FOR SALE—The Walkerton Greenhouse and Market Gardens. These premises consist of 3½ acres of first-class land with 2,000 ft. of glass and 100 ft. of brick dwelling, two greenhouses heated with hot water with all modern improvements; well stocked and necessary tools. Also a large lot of land (one-half mile), 60 miles distant. Also ½ acre of highly cultivated land for balance. Apply to J. W. JENNINGS, Fort P. O., Mich.

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LA ROCHE & STAHL,
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 Consignments Solicited. Special attention paid to
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Quick sales and prompt returns guaran-
 teed. Consignments solicited.

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 at lowest market rates, shipped C. O. D. Use A.
 E. Code when ordering by telegraph. Telephone
 connections. For prices, etc., address
J. L. DILLON, BLOOMSBURG, PA.

Wholesale Markets.

Cut Flowers.

BOSTON, Feb. 2.	
Roses, Bon Silenes.....	\$3.00
" Niphetos.....	4.00 @ 5.00
" Goutiers.....	3.00 @ 5.00
" Perles, Sunsets.....	8.00 @ 10.00
" Mercute, Woottons.....	8.00 @ 10.00
" La France, Brides.....	10.00 @ 12.00
Callas.....	2.00
Violets.....	2.00
Valley.....	4.00
Narcissus, single.....	4.00
Narcissus, double.....	6.00
Callas.....	4.00
Callas.....	4.00
Smilax.....	12.00 @ 15.00
Adiantum.....	1.50
Asparagus plumosus.....	30.00
Freezia.....	2.00
Sparagets.....	1.00
Heath.....	4.00

PHILADELPHIA Feb. 2	
Roses, Beauties.....	25.00 @ 30.00
" Brunners.....	20.00
" La France, Albany.....	10.00 @ 12.00
" Langes, Maenas.....	30.00 @ 35.00
" Mermetts, Brides.....	6.00 @ 10.00
" Bennetts.....	8.00 @ 10.00
" Perles, Niphetos.....	4.00 @ 6.00
" Cousins, Hostas.....	5.00 @ 6.00
Valley.....	5.00 @ 6.00
Tulips.....	4.00 @ 5.00
Daffodils.....	1.00 @ 2.00
Carnations, long.....	1.50 @ 2.00
" short.....	1.00 @ 1.25
Smilax.....	10.00
Adiantum.....	1.00

NEW YORK Feb. 2	
Roses, Perles.....	\$3.00 @ \$4.00
" Niphetos, Sonas, Goutiers.....	3.00 @ 4.00
" Mermetts, Brides.....	4.00 @ 5.00
" Watervilles, Cousins.....	5.00 @ 6.00
" La France, Albany.....	7.00 @ 8.00
" Bon Silenes.....	2.00 @ 3.00
" Jim Beauty.....	10.00 @ 12.00
" Hybrids.....	25.00 @ 30.00
" Jaccs.....	30.00
Valley, Romans.....	2.00 @ 3.00
Narcissus, Paper white.....	2.00 @ 3.00
Daffodils.....	4.00 @ 5.00
Violets.....	2.00 @ 2.25
Smilax.....	15.00
Adiantum.....	1.25
Callas.....	6.00 @ 6.50
Harris.....	10.00 @ 15.00
Lilac, per bunch.....	1.00

CHICAGO Feb. 2	
Roses, Bon Silenes.....	2.00 @ 3.00
" Perles, Niphetos.....	4.00 @ 5.00
" Mermetts, Brides.....	6.00 @ 8.00
" Beauties.....	20.00 @ 30.00
" Goutiers.....	4.00 @ 5.00
" Bennetts, Woottons.....	6.00 @ 8.00
" La France.....	6.00 @ 8.00
Carnations, short.....	1.00
Carnations, long.....	2.00 @ 2.50
Carnations, long, fancy.....	2.00 @ 3.00
Valley.....	4.00 @ 5.00
Tulips.....	4.00 @ 5.00
Roman hyacinths, narcissus.....	3.00 @ 4.00
Smilax.....	10.00 @ 15.00
Adiantum.....	1.00 @ 1.25
Violets.....	1.00 @ 1.25
Callas.....	10.00 @ 15.00
Harris.....	10.00 @ 15.00
Sun-T getting shorter and selling at outside quotations.	

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Cut Flowers & Florists' Supplies
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GEO. MULLEN,
WHOLESALE FLORIST.
 Florists' Supplies Always in Stock.
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 (Off School St., near Parker House),
 BOSTON, MASS.
 Orders by Mail, Telegraph, or Express
 promptly filled.

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WHOLESALE FLORISTS
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 We make a specialty of shipping choice Roses and
 other Flowers carefully packed, to all points in
 Western and Middle States. Return Telegram is
 sent immediately when it is impossible to fill order.

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 The Western Trade Solicited.
 Write or Telegraph.
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 20 West 24th Street,
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LILY OF THE VALLEY,
 And the Choicest ROSES for the
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 [ESTABLISHED 1871.]
 Price List sent upon application.

W. F. SHERIDAN,
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 No. 32 W. 30TH ST., NEW YORK.
 Orders to be shipped will receive prompt attention.

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W. A. JURGENS,
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JOHN YOUNG,
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 56 WEST 30TH STREET,
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A. S. BURNS, J. L. Raynor.
BURNS & RAYNOR,
WHOLESALE FLORISTS,
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NEW YORK.

J. M. McCULLOUGH'S SONS,
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CUT FLOWERS
 134 & 136 Walnut Street, CINCINNATI, O.
 SPECIALTIES:
ROSES, CARNATIONS AND ORCHIDS.
CONSIGNMENTS OF SMILAX, CALLAS
AND ADIANTUMS WANTED.
THE WISCONSIN FLOWER EXCHANGE.
 183 Mason Street, MILWAUKEE, WIS.

CUT SMILAX.
 I make a specialty of Smilax, and am prepared to
 fill orders promptly. Price, 30 cents per string (111)
 May 1st. Quality A. 1. JOSEPH E. BONSALE,
 Telephone No. 15. 308 Garfield Ave., Salem, Ohio.
 5,000 Spirea Japonica, fine clumps, per 100, \$3.50.
 3,000 Gen'l Jac. Rose plants, 4-in. pots, per 100, \$7.00.
 Choice Cuttings rooted, Verschaffeltii, per 100, \$7.00.
 —Golden Bedder & Golden Verschaffeltii, — \$10.00.
JOHN RECK, Bridgeport, Conn.

Seeds Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

Special Quotations.

The season is now at hand for "special quotations." Here is the first sample received by a gardener in the south:

1 pkt. Lettuce, Hanson's Improved.....	.03
1 pkt. Melon, Chicago Market and Osage and Nectar.....	.03
1 pkt. Melon, Green and Gold and Seminoe.....	.03
1 pkt. Onion, Silver King.....	.03
1 pkt. Parsley, Moss Curled.....	.03
1 pkt. Sage.....	.03
1 pkt. Bliss Wonder Pride of M.....	.05
1 pkt. Pumpkin, Mammoth Tiers.....	.03
1 pkt. Tomato, Peach.....	.10

All of the seed to be the highest grade and from new crop. Cash to accompany order.

Comment is unnecessary.

It is now Hon. Everett B. Clark, of Milford, Conn. It serves him right. His strains of Conn. grown seed we believe are none the worse for this.

THE 1891 catalogue of S. L. Allen & Co., manufacturers of Planet Jr. goods, shows still further improvements in their line of gardening implements.

The committee appointed in June by the Seed Trade Association to investigate alleged fraudulent entry of imported seeds are reported to be actively at work.

REPORTS from leading wholesale houses indicate that many florists are asking for extension on their accounts due January 1, and collections from them are not up to the usual January standard.

BALTIMORE.—C. M. Hildesheim, living near Chestnut Grove, Baltimore county, had a hearing before United States Commissioner Rogers on the charge of using the mails for fraudulent purposes. The evidence showed that Hildesheim sent out a large number of illustrated price lists of seeds and plants and rented a box at the Baltimore postoffice, to which orders were to be sent. Complaint was made to the postal authorities that in some cases Hildesheim failed to send the articles ordered, and in others only did so after great delay. Hildesheim said he did not send the purchases, as charged, because he did not have the articles on hand at the time, but would fill all orders as soon as possible. He said he had no intention of defrauding, and promised there should be no further complaints. The commissioner held the case under advisement.—*Baltimore Sun*, Jan. 20.

G. J. MOFFATT,
Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.
Samples and prices on application. When writing for prices, please state sizes and quantity wanted.

HENRY METTE,
Seed Grower and Merchant,
QUELDENBURG, GERMANY,
(Established 1787.)
Wholesale Catalogue free on application. Special low prices given for large quantities.



JOHNSON & STOKES, SEEDSMEN,
217 and 219 Market Street, PHILADELPHIA, PA.

Z. DE FOREST ELY & Co.,
WHOLESALE
Seed Merchants and Growers.
IMPORTERS OF
Bulbs for Florists.

Our specialty is the JOBBING TRADE. Write for prices, which are always favorable, we can help you increase your trade.

1301 and 1303 Market Street, PHILADELPHIA, PA.



BARNARD'S TESTED SEEDS.
EST OF ALL TRUE TO NAME
BOOK MAILED FREE TRY US ONCE
END AGAIN.

Complete assortment of Flower, Vegetable and Farm Seeds, Garden Tools, Etc. Send for illustrated catalogue.
W. BARNARD & CO. (Successors to Hiram Sibley & Co.) 6 & 8 N. Clark-st. Chicago.

WE STRIVE

TO HOLD

Old customers of Years Standing

By supplying only the Best Seeds.

How we succeed, you can judge

By sending a trial order now.

Then you will soon learn

To rely, year after year, upon

Burpee's Warranted Seeds

Than which there are None Better.

Suppose you write to-day for

Burpee's Farm Annual FOR 1891

Which tells all about them.

W. ATLEE BURPEE & CO.
PHILADELPHIA, PA.

Order now for Spring Trade
JAPAN MAPLES, MAGNOLIAS,
Double-flowering Pines,
Tree and Herbaceous Peonies, Irises,
etc. All hardy East.
NOVELTY, MINIATURE PINES and CON-
IFERS FROM JAPAN. Catalogue free.
H. H. BERGER & CO.
P. O. Box 1591. SAN FRANCISCO, CAL.

Gorgeous Begonias
TUBEROUS ROOTED.
Now is the time to sow. The best strain in Europe. \$1.00 per packet, Double or Single.

R. OWEN, Begonia Grower,
Maldenhead, England.

Vegetable Seeds for Market Gardeners.

Flower Seeds and Bulbs for Florists.

Our reputation among the critical Market Gardeners of this country, for having varieties and strains specially adapted to their wants, is second to none.

Our new Florists' and Market Gardeners' WHOLESALE PRICE LIST is the best and most complete list of its kind ever sent out. Write for it on your printed letter-head or enclose business card to show you are entitled to it. Our Horticultural and Poultry supply Circulars are complete and can be had for the asking.

ALL NEW 1891 OHIO SEEDS FOR ALL CLIMATES
Our climate and season are suitable for growing and maturing all seeds. Our CATALOGUE is well arranged, instructive, and is sent FREE on application. With the new and easy way to grow tomatoes, 1500 Bushels on an acre. Describe our new Stone Tomato, Melon, packet 10 cts; or the 2 bushel packet for 20 cts. Address A.W. LIVINGSTON'S SONS, Box 411, Columbus, Ohio.

USE FERRY'S SEEDS
BECAUSE THEY ARE
THE BEST.
D. M. Ferry & Co's
Illustrated, Descriptive and Priced
SEED ANNUAL
For 1891 will be mailed FREE
to all applicants, and to last season's
customers. It is better than ever.
Every person using Garden,
Flower or Field Seeds,
should send for it. Address
D. M. FERRY & CO.
DETROIT, MICH.
Largest Seedsmen in the world

Tuberous Begonias
OUR SPECIALTY.

Our stock is the largest in America, and contains over 200 varieties of named Doubles.

WE WILL SEND POSTPAID—

12 named doubles, very best.....	\$12.00
12 " " " choice.....	9.00
12 " " " fine.....	6.00
12 " " " good.....	3.00
Single, mixed.....	1.00
red and pink.....	5.00
small tubers.....	4.00
Double, mixed.....	12.50
Seed, double, hybridized from named flowers.....	50.00
Seed, single, extra hybridized.....	100.00

F. J. MEECH & SON.,
CHARLEVAIN, MICH.



THE NEW ROSE

WABAN

This very valuable rose originated at the Waban Conservatories of E. M. Wood & Co., Natick, Mass. It is a *SPORT* from Catherine Mermet and identical with that variety in every characteristic, excepting color, which is a rich, deep, **BRIGHT PINK**; it sustains the same relation to its parent as Duchess of Albany does to LaFrance. The only objection to C. Mermet is its frequently pale, insipid color in cloudy weather; experience has shown that the **WABAN** retains its deep rich color in all kinds of weather; it will, without doubt, prove to be as valuable as **THE BRIDE** which is also a sport from the same magnificent variety.

IT HAS ALREADY RECEIVED THE SILVER MEDAL

of the Massachusetts Horticultural Society; of the Pennsylvania Horticultural Society, and **Certificate of Merit** from each of the Societies in this country and Canada where it has been shown,

Ready for Distribution on April 15th, 1891.

Orders booked now, will be filled in strict rotation.

Extra good plants from 2½-inch pots.

1 Plant,	\$ 1.00	250 Plants,	\$100.00
12 Plants,	9.00	500 "	175.00
50 "	30.00	1000 "	300.00
100 "	50.00		

From 4-inch pots.

1 Plant,	\$ 1.50	50 Plants,	\$ 40.00
12 Plants,	15.00	100 "	75.00
25 "	25.00		

The following Agents have been appointed to sell the Rose in the respective territories given below:

W. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th & Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

Chicago.

The main difficulty in arranging for the proposed spring flower show, now being considered by the Horticultural Society, is the question of securing a suitable hall. The Auditorium was suggested and a call by a member of the society resulted in the tendering of a special cut rate of only \$1,400 a day. It is unnecessary to add that the show will not be held there.

Mr. F. Sulzer, one of Chicago's pioneer florists, has sold his greenhouses and business to Wm. Hoppe & Co., and has retired to enjoy the fruits of many years of active business life.

The new greenhouses at Lincoln Park are nearly all ready for use, and plants have been moved into some of them. Some of the old houses have been torn down, the glass in their roofs having been transferred to those of the new houses.

W. D. Allen, the State street florist, has sold out to a stock company which will bear the title the W. D. Allen Floral Co.

The Florist Club's entertainment last Friday evening was a very enjoyable event. The music was good, the floor was in splendid condition and the merry crowd present "tripped the light fantastic" until 1 a. m. The supper was also excellent and many pleasantries were exchanged during its discussion. The wives and lady friends of the members who had not yet met each other were soon on a friendly footing and the object of the gathering was thus fully accomplished. During the evening several of the ladies favored the company with vocal selections and "the boys" rendered the club's only and original song. Those who stayed at home missed a good time.

Mr. O. P. Bassett is now at Suwanee, Fla. He hopes to find relief from rheumatism through the sulphur springs there.

There are still many complaints of poor trade. The supply of nearly all flowers is rather short. Weather very cold and blustering.

The regular semi-monthly meeting of the Florist Club will be held next Thursday, the 12th inst.

The appointment of Chief of the Horticultural Department of the World's Fair is still hanging fire.

Fungus in the Propagating Bed.

I would like to hear from some older florists about their experience with fungus in the propagating bed. I have been troubled with it considerably lately, and have not been able to determine the cause. The propagating bed is in a house where we keep alternantheras and other bedding plants. I keep the house dry and do not overwater the bed. The temperature of the bed is kept about 70°. The fungus started first among ivy-leaved geranium cuttings of young wood. The sand was taken fresh from Lake Michigan in November. JAS. JENSEN.

Chicago, Jan. 20.

Carnation Cuttings.

Boxed off and well established. Send for Price List.

DE WITT BROS.,

BRISTOL, PENNSYLVANIA

VERBENAS, fine stock plants, \$5.00.

CINERARIAS, fine plants twice potted, \$5.

MCCREA & COLE, Battle Creek, Mich.

ROOTED CUTTINGS.

—Send for Lists. The prices and quality are sure to please.—

CARNATION NOVELTIES: Lizzie McGowan, Louise Porsch, Golden Gate, J. R. Freeman, Wm. F. Dreer, Hector, Edelweiss, Angelus, Dorothy, Nellie Bly, Snow Bird, White Wings, May Flower, Orange Blossom, Beauty of Oxford, Emily Louise Taplin, and others are described in my list. Also all the standard varieties.

COLEUS—A large stock of VERSCHAFFELTII and GOLDEN BEDDER and twenty-two fancy sorts, all good bedders, at 75 cts. per 100; \$6.00 per 1000.

CANNA EHEMANNI, strong roots, at \$8.00 per 100. **EMILE LECLAIRE**, \$10.00 per 100; and the **DWARF FRENCH** at \$12.50 per 100. All in extra good shape.

SMILAX for delivery in March, \$6.00 per 1000 for plants once reset. Samples 10 cts.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

LIZZIE McGOWAN,

* * THE QUEEN OF WHITE CARNATIONS! * *
Will be ready for distribution February 10th, '91. Price, \$12 per 100; \$100 per 1000, for strong well rooted plants from cutting bench. Plants well established in small pots, \$3 per dozen.

Send for price and descriptive list of this and other sorts.

ADDRESS

H. E. CHITTY, PATERSON, N. J.

Rooted Cuttings.

NOW READY. UNSURPASSED IN QUALITY.

GOLDEN GATE, Grandest New Pure Yellow.

ROOTED CUTTINGS, \$1.50 per dozen; \$12.00 per 100; \$100.00 per 1000.

WM. F. DREER, Magnificent, Fringed Rose Pink.

ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$90.00 per 1000.

J. R. FREEMAN, Fragrant, Crimson Scarlet.

ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

CONSTANCY, Glowing, Bright Scarlet.

ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

FRED CREIGHTON, Delicate, Soft Pink.

ROOTED CUTTINGS, 60 cents per dozen; \$4.00 per 100; \$35.00 per 1000.

For well established plants from small pots, see ILLUSTRATED CATALOGUE—free.

ROOTED CUTTINGS, at prices per dozen, free by mail.

CHAS. T. STARR, Avondale, Chester Co., Pa.



LIZZIE McGOWAN THE NEW WHITE

CARNATION. ROOTED CUTTINGS, \$12 per 100, or \$100 per 1000.

LOUISE PORSCHE FINE YELLOW

CARNATION. Better grower than Buttercup; \$7 per 100; \$50 per 1000.

Both ready for delivery Feb. 10, 1891. 500 at 1000 rate, 50 at 100 rate.

ADDRESS

JOHN McGOWAN,

363 Main Street, ORANGE, N. J.

THE AMERICAN FLAG

Is the best STRIPED CARNATION ever produced; it is a strong grower, free bloomer and very fragrant; it grows and flowers well outside and forces good inside.

\$ 2.00 per dozen.

12.00 per hundred.

100.00 per thousand.

We deliver only well Rooted

Cuttings which have been once

transplanted.

Ready for Delivery March 1st, 1891.

Ig. FORSTERMANN, Newtown, Long Island, N. Y.

ROOTED CUTTINGS OF CARNATIONS.

Standard and Fancy varieties, ready January 1st. Stock healthy, cuttings rooted cool. A large stock of NEW WHITE CARNATION L. L. Lamborn. A liberal discount on large lots for later delivery. Send for wholesale price list.

Wm. Swayne, P. O. Box 226, Kennett Square, Pa.

CARNATIONS.

Rooted Cuttings of the following vars. at \$1.00 per 100
 HINZE'S WHITE, JEANNETTE, PETER HEN-
 DERSON, SNOWDON PORTIA, E. G. HILL,
 GRACE WILDER, ANNA WEBB,
 PRIDE OF KENNETT, DAWN.

CENTURY, \$2.00 per 100.
 FRED CREIGHTON (New) Pink, \$4.00 per 100.
 DOUBLE WHITE, Double Variegated and Fringed
 PETUNIAS, \$2.00 per 100.
 GERANIUMS, all the finest varieties in mixture
 \$2.00 per 100; to name, \$4.00 per 100.

ROOTED CUTTINGS of the leading varieties of forcing
 ROSES, Prices on application.
 JAMES HOBAN, Florist, Bridgeport, Conn.
 Mention American Florist.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure
 white sport of Chester Pride for the first time
 this season, @ \$1.50 per dozen; \$10.00 per 100.
 Send for circular of leading varieties and several
 new seedlings of merit.

W. R. Sheldire,
 AVONDALE, PA.

Rooted Cuttings of Carnations

of all the Standard Varieties ready Dec. 1st.

Having added another 100 foot house to our Car-
 nation Department, hope to be able to fur-
 nish any quantity desired, on short notice.

Orders for future delivery at 10 per
 cent off from catalogue price.

JOS. RENARD, Unionville, Chester Co., Pa.
 Mention American Florist.

CARNATIONS.
ROOTED CUTTINGS
 of New and Old varieties at the lowest price pos-
 sible to secure good stock from healthy plants.
 Seventy-five thousand will be ready by Feb. 1st.
 Send for catalogue or price list.

SEND ORDERS EARLY.
ISAAC LARKIN, Toughkenamon, Pa.

ROSES AND GERANIUMS.

I shall have for spring delivery a surplus stock
 of plants in 2½, 3 and 4 in. pots in the very
 best condition, of the following roses:

AMERICAN BEAUTY, DUCHESS OF ALBANY,
 MME. HOSTE, SOUVENIR DE WOOTTON, LA
 FRANCE, MERMET, PERLE DES JARDINS,
 BRIDE and NIPHEOS. And of

CARNATIONS

SILVER SPRAY, TIDAL WAVE, PORTIA,
 AND PRESIDENT DE GRAU.
 All of the above will be in first class con-
 dition and guaranteed to give satisfac. ion. Orders
 booked now to be filled at any time desired.
 Price list on application.

O. P. BASSETT,
 HINSDALE, ILLINOIS.

PLANTS for CUT FLOWER GROWING

Roses, Carnations,
 Chrysanthemums, Ferns.

I grow all the best varieties for this purpose. Whole-
 sale list now ready. Send for it before buying your
 stock for planting.

M. A. HUNT, Terre Haute, Ind.

Zirngiebel's Improved Strains

—OF—

WHITE ASTERS, PERPETUAL WHITE
 STOCKS, GIANT MARKET and PANCY PAN-
 SIES; NEW HYBRID CARNATIONS, a cross
 between the Perpetual and Marguerites, and
 greatly superior for florists' use, in separate
 colors, pure yellow, white, pink and red shades.

Any of the above seeds in trade packets
 at \$1.00 each.

Also the choice NEW CONTINENTAL CAR-
 NATIONS for 1891. Miss Moore, Mme. Gobel,
 Roi des Violettes, Bouton, d'Or, Geanne Morel,
 to be sent out March next.

Send for Descriptive List of all to

DENYS ZIRNGIEBEL,
 NEEDHAM, MASS.

CARNATIONS.
60,000 ROOTED CUTTINGS NOW READY FOR DISTRIBUTION

Only the finest varieties and in perfect health. Prices as follows:

	Per 100		Per 100
BUTTERCUP	\$1.00	GRACE WILDER	\$1.50
SILVER SPRAY	2.00	PORTIA	1.50
F. CREIGHTON	4.00	CARFIELD	1.50
MRS. FISHER	3.00	HINZE'S	1.50
TIDAL WAVE	3.00	STARLIGHT	1.50

MAGNIFICENT NEW CARNATIONS: Great Producers: Strong in Habit: Free from Disease.
E. LONSDALE, satin pink, color of Baroness Rothschild's child; stronger in growth than Hinze's.
FRED'K DORNER, finest and largest scarlet yet produced; healthy; free; long stems.
ARNIE WIEGAND, an improved Grace Wilder, with larger flowers, and sturdy of growth.

THE ABOVE FIVE SORTS IN ROOTED CUTTINGS AT \$15.00 PER 100.

OTHER BEAUTIFUL NEW SORTS. ROOTED CUTTINGS.

OTHER BEAUTIFUL NEW SORTS. ROSEBUDS, 1000		Per 100	
LIZZIE MCGOWAN	Per 100	RED CROSS, light glistening scarlet	Per 100
MRS. HARRISON, white, exquisitely penciled	\$12.00	CHERRY LIPS, deep bright pink	3.00
INNOCENCE, magnificent pure white	2.50	DELIGHT, creamy white	3.00
SAN MATEO, magnificent bright scarlet	4.00	CANADA, rosy crimson	4.00
WELCOME, fine cherry pink	2.50		

TRY SOME NEW VARIETIES. Monsieur Carle says that a Seedling produces double or treble the bloom in the first few years of its existence that it does after several year's propagation.

SEND FOR OUR TRADE LIST FOR FULLER DESCRIPTIONS.

Nice **MANETTI STOCKS** for grafting \$1.50 per 100; \$14.00 per 1000.
CANNA EHEMANNI, strong, \$8.00 per 100.

E. G. HILL & CO., Richmond, Indiana.

NEW CARNATION OHIO.

A seedling of P. Henderson X with Buttercup. Flowers very large, often 2½ to 3 inches in diam-
 eter; high full center, finely fringed; pure white and very fragrant. Florists will find this one of the
 most profitable varieties for winter flowers. \$1.50 per dozen; \$12.00 per 100.

CARNATION LIZZIE MCGOWAN—\$1.50 per dozen; \$12.00 per 100.
NEW GERANIUM SOUVENIR DE MIRANDE—The most striking novelty in Geraniums that has ap-
 peared in years. \$10.00 per 100.

CANNA EHEMANNI—Strong. \$5.00 per 100. **CANNAS**, in eight best varieties, \$4.00 per 100.
DAHLIAS—Strong field grown roots, in 100 best sorts, \$6.00 per 100.
CALADIUM ESCULENTUM—7 to 10-inch, \$7.00 per 100. 5 to 7-inch, \$5.00 per 100.
AZALEAS—Fine plants with well shaped crowns, from \$25.00 to \$40.00 per 100.
HYDRANGEA PANICULATA GRANDIFLORA—All sizes from 4 inches to 3 feet high.
HYDRANGEAS—OTAKSA, HORTENSIA, THOS. HOGG, ALBA FIMBRIATA and RAMIS
 PICTA, in large supply.

An immense stock of ROSES, GERANIUMS, NEW BEGONIAS and other Florists plants.
 Full assortment HARDY SHRUBS, RHODODENDRONS, CLEMATIS, Etc. ORNAMENTAL and
 FRUIT TREES, GRAPE VINES and SMALL FRUITS by the million.

If you have not received Spring Catalogue and Florist's Trade List, send for them—FREE.

THE STORRS & HARRISON CO.,
 PAINESVILLE, LAKE CO., OHIO.

Mention American Florist.

ROOTED CUTTINGS OF CARNATIONS.

Ready Now. LARGEST STOCK IN THE WEST. Ready Now.

W. W. COLES, STARLIGHT, J. J. PERKINS, MRS. CLEVELAND,
E. G. HILL, GAMBETTA, GRACE FARDON, GRACE WILDER, { \$1.50 per 100.
SUNRISE, GARFIELD, PHILADELPHIA, ALEGATICE, PORTIA,
AMERICAN WONDER, L. L. LAMBORN,
STRIPED PHILADELPHIA, CHESTER PRIDE, { \$2.00 per 100.
PREST. DE GRAU, KING OF CRIMSONS, { \$1.00 per 100.
FEERLESS, HINZE'S WHITE.

100 ROOTED CUTTINGS (OUR SELECTION) IN 10 VARIETIES, BY MAIL, \$1.50.

Special Prices on Large Lots.

Send for our Price List of **CHRYsanTHEMUMS, LITTLE GEM FEVERFEW and BEGONIAS.**
 HEADQUARTERS FOR CUT FLOWERS and FLORISTS' SUPPLIES.

J. M. McCULLOUGH'S SONS, 134 & 136 Walnut St., CINCINNATI, OHIO.

CARNATIONS! LIZZIE MCGOWAN,
 FRED. CREIGHTON,
 GOLDEN GATE,
 FAIR ROSAMOND, J. R. FREEMAN, HECTOR, MRS. FISHER, WM. F.
 DREER, CHASTITY, SILVER SPRAY, TIDAL WAVE, GRACE WILDER,
 L. L. LAMBORN, CONSTANCY, EDELWEISS, EMILY LOUISE TAPLIN,
 ANGELUS, LOUISE PORSCHE, NELLIE ELY, DOROTHY, DAY BREAK,
 and sixty other leading varieties. \$20,000 now in cutting bench. Send for price list, and order early.
GEO. HANCOCK, Grand Haven, Michigan.

Are We the Sinners.

ED. AM. FLORIST.—I have been very much interested in the articles in the FLORIST concerning parties who have refused good shipped C. O. D. If I did not have a little practical experience in that line I would come to the conclusion that "we only are the sinners," but I think that class of florists to which I belong (retailers and growers) have been more sinned against, and as a matter of protection sometimes we have to sin, by refusing to receive goods shipped C. O. D. Some years ago the writer ordered flowers for a funeral, thirty hours' time was given to the shipper, the time was plainly specified when the goods were wanted. They arrived C. O. D. just at the time the funeral was at the church and were refused—result, some very tall kicking.

Last Decoration Day twenty-four dollars' worth of flowers were ordered. It was plainly stated that the flowers would be wanted noon the previous day. Noon came, no flowers; six p. m., no flowers. I telephoned the house and they replied the goods were on the way per American Express. Eight p. m., no flowers; after a hard day's work I went to midnight train, no flowers. Next morning from seven to nine my customers to whom I promised flowers came pouring in; result, mad, disappointed people. The writer was called everything but a gentleman. Lo and behold, at half past nine the Adams Express came tearing up with eighteen dollars' worth of flowers C. O. D. They were refused. I forgot to mention that the R. R. time between here and Chicago is about an hour and a half. I never wrote the house, the house never wrote me, although we traded and trusted each other before this time. I often asked myself the question since then, who lost the price of those flowers, the grower or the house? I could ask lots of other knotty and nighty questions, but I will leave it to the readers of the FLORIST who are the biggest sinners?

Elgin, Ills. B. O'NEIL.

[What bearing all this has upon the notes we made in our issue of the 8th ult. we are quite unable to see. If Mr. O'Neil will read them again he will see that we referred only to shipments made to parties regarding whose responsibility the shipper has no information. The case cited by our correspondent was judging from his statement, a very peculiar one indeed, but it has not a particle of bearing upon the comments made in our issue of the 8th.—Ed.]

CANNAS.

Ehemanni and LaTour de Grand Ronde \$ 8.00
Emil Leclaire, Nouton and Adolph Weick 12.00
Tobacuses, Pearl 100.00
Caladium Esculentum, 1st size 7.00
Can use in exchange, 1000 Carnations, Rooted cuttings. 2nd size 5.00

E. S. NIXON & SON,
Chattanooga, Tenn.

SURPLUS FOR CASH.

All nice, Clean Stock, Strong.

Geraniums, best sorts, 2 1/2 inch 25c
Cyclamen, 4 inch, budded and 2 1/2 inch 25c & 1c
"Mums," cut flower sorts, rooted cuttings 1c
White Iris clumps, fine 1c
Fuchsias, double and single, 2 1/2 inch 25c
Rose Marie Van Houtte, 2 1/2 and 3 inch 25c & 1c
Clematis Hederaea, 2 1/2 inch 25c
Feverfew Gem, 2 1/2 inch 25c

E. L. KOETHEN, Zanesville, O.

MY NEW SPECIAL OFFER OF
EXTRA CHOICE FLOWER SEEDS

is now published and may be ad on application.

FRED. ROEMER,
SEED GROWER

Quedlinburg, Germany.

THE LATEST AND GRANDEST NOVELTY OUT.

NELLIE LEWIS CARNATION.



Flowers very large and full, and of a color never before seen in Carnations—AN EXQUISITE SHADE OF PINK.

For decorative purposes and corsage bouquets, they are unsurpassed. A bowl filled with them used at a dinner a short time ago, lighted up the entire table. Don't fail to place your order at once, as we control the entire stock and have only a limited number of plants.

Price, 50 Cents each; Three, \$1.25; Six, \$2.25; Dozen, \$4. Wholesale rate on application.

VICK'S SEEDS NEVER DISAPPOINT, is the verdict of the millions who have planted them.

VICK'S FLORAL GUIDE for 1891, contains over 100 large pages, hundreds of illustrations, colored plates, Best Novelties, all worthy of cultivation; \$1.00 and \$2.00 cash prizes. Price, 10 cents, which deduct from first order and it COSTS NOTHING.

JAMES VICK, SEEDSMAN, ROCHESTER, N. Y.

FRED GREIGHTON.

ROOTED CUTTINGS of this Superb Pink Carnation, \$5.00 per hundred; \$4.00 per thousand. From the original stock, which has not been forced or in any way made to produce an extra quantity of CHEAP Cuttings at the expense of the future well doing of the same.

To give all a chance to see what kind of flowers this stock produces, I will send a few florets, free of charge, to any in the trade who apply to me by letter.

GEORGE GREIGHTON, NEW HAMBURGH, N. Y.

150 Acres.

Large Assortment.

TREES, SHRUBS, VINES,

FRUIT AND ORNAMENTAL.

TRADE LIST ON APPLICATION.

SELOVER & ATWOOD, - - GENEVA, N. Y.

WE WILL LEAD, OTHERS TRY TO FOLLOW



To whom was awarded the **Only First-Class Certificate of Merit** for "Standard" Flower Pots, at the Sixth Annual Convention of the Society of American Florists, held at Boston, Mass., August 22d, 1890? We were. Why? Because we manufactured and exhibited the **only true "Standard" Flower Pots**, and of which we claim to be the **only manufacturers** at the present time.

FOR REDUCED PRICE LIST, ADDRESS

THE WHILLDIN POTTERY COMPANY,

713 & 715 Wharton St., PHILADELPHIA, PA.

AGENT FOR NEW ENGLAND STATES:

M. J. MCCARTHY, 27 & 29 Olis Street, Somerville, Mass.

EVERY FLORIST SHOULD HAVE A COPY OF

OUR TRADE DIRECTORY.

AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

HAIL

Lock the door BEFORE the horse is stolen. Do it NOW! JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.



ALL SIZES OF SINGLE AND DOUBLE THICK
GLASS FOR GREENHOUSES

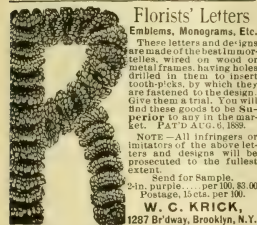
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Vol. VI.

CHICAGO AND NEW YORK, FEBRUARY 12, 1891.

No. 141.

THE AMERICAN FLORIST

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M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; WM. J. STEWART, 6 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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WE SEEM to be gaining many admirers in European countries. Our list of subscribers in England and Holland especially is continually growing.

IN THIS ISSUE we give a list of coming exhibitions of which we have up to date had information. If any for which dates have already been announced have been omitted we trust that we shall have prompt notification. And as dates are decided upon we ask prompt advice of same that the list may be complete.

Boston.

The demand for roses has been far in excess of the supply during the past week. All varieties have been equally scarce and there has been a ready sale for everything in the rose line provided it was of good quality. Carnations, violets and other staple flowers have also felt the effect of the rush and have sold well. Smilax has suddenly become very scarce and the price has doubled within a week. This is a welcome change from the inactivity of the preceding month, the only unfortunate feature of it being the short time that will elapse before Lent comes in and puts a damper on everything.

The annual supper of the Gardeners' and Florists' Club took place at the Quincy House on Thursday evening, Feb. 5. About 125 gentlemen participated, among the number being several invited guests. Washington was well represented by Mr. Benj. Durlie, who visited the club on this occasion for the first time. Mr. Sam'l Henshaw, of Thompson, Conn., Mr. W. A. Manda, of Short Hills, N. J., Judge C. W. Hoitt, of Nashua, N. H., Mr. T. O'Connor, of Providence, R. I., and Mr. T. McCarthy, Supt. of Swan Point Cemetery, Providence, were among the guests from outside the state. Other invited guests present were President W. H. Spooner and Secretary Manning of the Mass. Hort. Society, Mr. W. C. Strong, Mr. Chas. Storer, Mr. John Fottler and others. President Foster of the G. and F. Club presided, and vocal music was rendered by the Haydn Male Quartette. Many letters and telegrams of congratulation were received and read by the president during the evening. These were from the Toronto Gardeners' and Florists' Club, Chicago Florists' Club, Society of Indiana Florists, Buffalo Florists' Club, Mr. John N. May, M. A. Hunt, Wm. Scott, John Chambers, Geo. C. Watson, D. D. L. Faxon, W. R. Smith and many other well known gentlemen. On the reading of the dispatch from Toronto three rousing cheers were given for the Toronto Club. Entertaining addresses were made by the visitors and many of the local lights. The reading of a number of bogus telegrams by Judge Hoitt caused much merriment, and Mr. Robert Farquhar read an original poem which showed him to be a poet of no mean attainments. The whole affair was a great success and reflected credit on the young men who served the club as the committee on this occasion.

On Saturday, Feb. 7, Mr. John Thorpe read a paper on "chrysanthemums" before the Mass. Hort. Society, the popular interest in the lecturer and his subject being evinced by the large audience which nearly filled the lower Horticultural Hall. The discussion which followed the essay was very interesting and brought out many instructive points.

On the exhibition table were some fine camellia flowers from Jas. Comley, and a variety of carnations from R. T. Lombard, including a vase of his handsome yellow seedling, as yet unnamed. A vase of splendid mignonette from Dailedouze Bros., of Flatbush, N. Y., was greatly admired. Jackson Dawson showed a lily recently received from Formosa, believed to be a new species. W. J. S.

New York.

Business continues to be very good, everything on a rush as if society was racing with Lent. There were many notable weddings here during the past week and every florist seemed to have got his share of the work, many of the homes and churches were lavishly decorated.

The decorations for the wedding of Miss Louise Shepard to Mr. Wm. Jay Schieffelin were very gorgeous, Miss Shepard being a Vanderbilt grandchild. The wedding breakfast and reception was at the home of the grandmother, Mrs. W. H. Vanderbilt. The decorations here by Hodgson were very beautiful, Madame Cusin and Madame de Watteville roses being the principal flowers used.

The church where the ceremony was performed was also handsomely decorated and there were very many beautiful floral congratulations sent. A novelty seen on this occasion was the boutonnières worn by W. K. Vanderbilt's coachmen, composed of fifty lily of the valley arranged in a round flat boutonniere and a rosette bow of No. 9 white satin ribbon hanging from the bottom with a loop of ribbon at the back to tie on the button; these put a royal touch to the procession.

There were numerous dinners and receptions and Thorley and Scallen and Butler were kept very busy with them while some bouquets made by Mr. Hafner of W. H. Browers, were simply grand. Mr. Hafner is one of New York's best artists, his fine work wherever seen can always be identified. The uptown florists were also very busy. The general aspect of affairs is more encouraging and the general opinion is that we shall have a very good Easter and spring season.

The cold snap during the past week made an impression on roses, but the abundant supply of all kinds of spring flowers made up any deficiency.

Daffodils and narcissus are very good and very plentiful; the same may be said of all bulb stuff. Freesia very abundant. Carnations very fine, plentiful and selling well.

In answer to Mr. Chitty I can only say that I have never been able to test the keeping qualities of Lamborn as they were always quickly disposed of.

Hybrids are coming in unusually fine and selling well. Mr. Christy, of Stamford, Conn., is shipping some very hand-

some Mrs. John Laings at present. This rose is very popular among the debutantes and an especial favorite with Mrs. Cornelius Vanderbilt.

It was Mr. J. Hammond (and not Mr. Hunter as stated in previous letters) who has leased the Buchanan store at 5th Ave. and Thirty-seventh St. It is in a good locality and Mr. Hammond has been there before.

Alphonse & Co. have opened a floral establishment at 39th St and Sixth Ave. Mr. Chas Ammann Jr. has opened up again on 125th St.

The negro that robbed Phil Reuter (one of Klunder's men) of \$140 has been sentenced to states prison for 7 years.

Smilax in great demand owing to the many decorations on hand.

Mr. Chas. Anderson's Perle continues climbing the ladder of fame. Mr. Anderson expects to exhibit a vase of this fine new rose at the coming exhibition.

Violets are plentiful and selling fairly well. There are a few poinsettias coming in yet and are quickly sold.

Chas. Zellar of Flatbush is the owner of a remarkably fine strain of *Primula chinensis*. He is undoubtedly the best seen here in years.

Orchids, particularly cattleyas, are plentiful and very popular just now.

There are some fine azaleas coming in already. Mr. Jas. Dean of Bay Ridge has a beautiful stock of them coming in for Easter.

Dutch hyacinths are very poor so far. Tulips are very good. JOHN YOUNG.

Chicago.

Business considerably improved. Supply of roses not sufficient to supply demand. Large increase in orders from outside points. The total consumption of flowers through this section of the country has probably not increased to any great extent, but the change in the weather having greatly lessened the cut, florists who have had their home supply cut down are sending to Chicago to fill out their orders. Quality of most flowers now in the market is fair only.

There is a large surplus of smilax in the market. Hardy ferns seem to have taken its place to a considerable extent in arrangements, and decorations where smilax would be useful have been few. Otto Ristow says he shall pull out his smilax and devote the space to roses another year.

J. F. Klimmer at Oak Park has sold out to Otto Gorke. Mr. Klimmer may build another place.

Mr. Chas. H. Fisk thinks that it might be inferred from previous notes in this column that Mr. Otto Ristow has an interest in his wholesale commission business, and desires us to state that while he and Mr. Ristow are partners in the retail establishment at 149 State street, Mr. Ristow has no interest whatever in his wholesale business.

Otto Ristow of Bowmanville has been very successful with the American Beauty until this year, but this season it has been a total failure with him. His Merrets, Brides and Guillotts have however done better than ever before, producing some of the best blooms he has ever grown. Perles Jardins has grown well, but the blooms have been both few and inferior in quality. Papa Gontier has done splendidly with him this season. He has them in a house by themselves and grows them cool. He finds this sort from 30 to 35 per cent more profitable than Bon Silence. With him the Gontier does not drop its leaves any more than any

other rose. A neighboring grower who has attempted to grow the Gontier in the same house with other sorts has been quite unsuccessful with it and Mr. Ristow is convinced that success can be attained only by growing this rose in a house by itself and keeping the temperature down to about 50° which would not suit most other varieties.

John Readon until recently with Samuel Muir, has removed to Pleasant Hill, Mo., having entered the employ of Geo. M. Kellogg at that place.

Philadelphia.

Mr. John Smith's essay on "How to Grow Mushrooms" read at the last meeting of the Florist Club was excellent. It dealt mainly with the methods of culture on a gentleman's estate, modestly refraining from treating the subject from a commercial standpoint as he does not claim to have experience in that direction. This want was supplied however by Mr. McCaffrey of Moorestown, N. J. who proved a good talker when he got started, as also by Mr. John E. Andre of Doylestown and Mr. James Gibson of the same place. Mr. Andre showed samples of button mushrooms cut at random from one of his beds. They were very fine. The crossing of swords between the different growers present was very interesting. The club thought there was a good deal more to be learned about mushroom growing than could be unearthed in one evening and so Mr. Gibson was appointed to prepare and deliver a paper on mushroom growing from a commercial standpoint at the meeting to be held in March.

Trade has very much improved. For the past two weeks all the florists have had good business. The second Assembly Ball to which only the "Four Hundred" are invited, came off on Friday evening. The very choicest flowers are used for the bouquets which are presented to the belles on this fashionable occasion.

The orchids grown around this city are readily disposed of. It is not very long ago that one of the leading florists complacently stated that a pansy was quite as much appreciated in this city as an orchid. It is a pleasure to be able to report progress at this time for orchids, especially cattleyas and cypripediums are in good demand.

Messrs. Evans & Battles had a novel dinner table decoration recently. Rose petals were liberally and at the same time artistically strewn about the table. We are assured that the price paid was very liberal. This is one way and a profitable one to use up the surplus roses, and these little "fads" are worthy of encouragement. E. D. W.

New York Floral Notes.

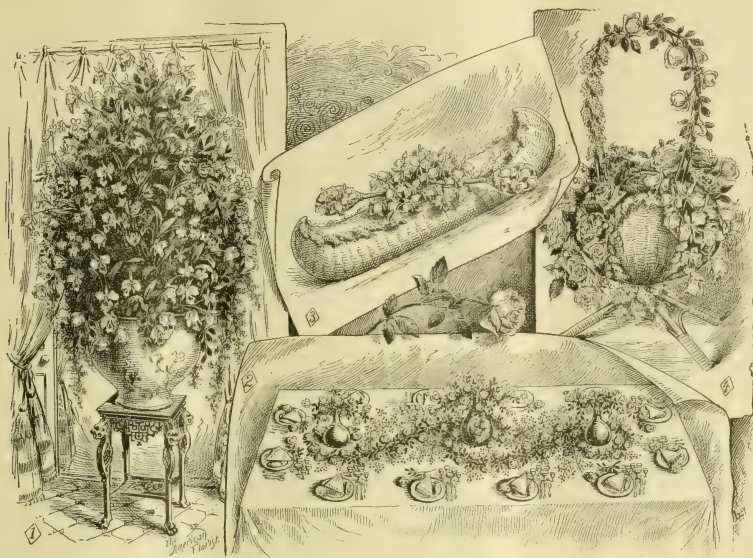
At the ball given by Mrs. William Astor on January 26 there was a display of flowers made by Klunder, which was the handsomest seen this season. There were tall vases on each side of the door containing fine cactus plants, which were elaborately trimmed with ivy and begonia blossoms. A little ways from these and in front of the parlor door was a large vase full of cattleyas, which were the Triana kind, and were extremely delicate and handsome. Fine ornamentations of lilies and roses beautified a mirror which was in the hall, and on one side was a small room in which on the table in the center were two azaleas of white and pink varieties which looked very beautiful. In

the hall at the staircase was a group of palms and a handsome basket of flowers containing poinsettias, cinerarias and cyclamens, which looked very handsome among the dark green leaves of the plants. Among this group of palms was a large lilac bush, a fine orange tree ten feet high covered with oranges, and on the other side of this group orchids were placed on the banisters of the stairs and a bunch of lily of the valley. Nearly opposite these plants was a large side table covered with spring flowers. Primroses, cinerarias and lily of the valley were the flowers in this large mass. Eight orange trees and several plants of lilac were distributed throughout the hall, and at times the bottoms of these trees were covered with yellow tulips.

The front parlor mantelpiece was effectively decorated with lygodium being placed down its center with here and there a handsome orchid twined in among it. These sprays were run into vases at the sides which were filled with fine orchids. On the parlor tables were bouquets of lilies and Papa Gontier roses. In the picture gallery the center of the room directly under the chandelier. This was beautifully trimmed in the center with a mound of cattleyas with which the drapings from the chandelier of Lygodium scandens was gracefully twined about. The picture gallery where the dancing took place was well decorated, there being garlands at equal distances on the sides of the wall. The mantelpiece and balcony where the musicians were were handsomely draped with scarlet tulips; the favors were placed at one side among Marguerites, handsome grasses and pretty greenery. Opposite the favors was a beautiful statue of the water nymph, which was handsomely decorated with Cusin roses. There was a great number of La France roses in bouquets in this room which looked very well all the evening, for these roses keep finely.

The decoration for Mrs. Mill's ball was done by Mr. Hall, of S. J. Burnham & Co., and was one of the handsomest displays of orchids this season. The pictures were all removed from the parlor and in their place were frames made of Lygodium scandens and other handsome greens, and in these were placed orchids mostly of the cattleya family. These pictures were really a study of beauty. There were vases of handsome Laing roses on the mantelpieces. Large bunches of violets was the favor given to each lady. Mr. Hall has had an order for a dinner decoration of English primroses. The very best were hard to get at this season, but at last succeeded and the table was most beautifully decorated with this scarce but desirable primrose.

Siebrecht & Wadley decorated the home of Miss Robbins, who married Mr. McVicker on the 14th inst., most beautifully. The church where the wedding occurred was banked on the altar with Liliun auratum and American Beauty roses, which was its only decoration, but which was greatly admired. At the house there was a wedding bell, the ropes of which were of white roses, with pink roses at the end for tassels. These were twined into vases of lilacs, which made a very pretty decoration. The dining room windows were filled with plants of which there was much poinsettia bloom. This firm is showing some fine plants of Erica Willmoriana which are brought over from England and are now in bloom, of a sea shell pink color on every stalk. They have soon been sold. Last night's stella, which have come out very large and finely. The flowers are pure white



VARIOUS FLORAL ARRANGEMENTS

with the exception of a rich dark plum purple deep in the throat. There are 200 plants of phalenopsis in blossom at the Rose Hill Nurseries, which are supposed to be the finest lot in cultivation in this country.

F. A. BENSON.

Various Floral Arrangements.

No. 1 shows a vase arranged by Klunder for Mrs. Astor's ball. A large decorated vase on an ebony stand was placed in the entrance hall in front of the drawing room door. This was filled with a variety of orchids, cattleyas, kelias odontoglossoms and a few oncidiums and cymbidiums together with asparagus and other vines. This was beautifully arranged and showed off each orchid flower to perfection.

No. 2 is a table decorated by Mr. Brower of Thomas Burns & Co. There were three vases on this dinner table, the central one being somewhat larger than the others. These were filled with Cusin roses, arranged loosely so as not to obstruct the vision from the other side of the table, while trailing around these was a line of Cusin roses forming graceful curves. The spaces between contained fronds of adiantum; the ladies' places had each a long-stemmed rose, and the gentlemen had each a boutonniere of Roman hyacinths, made of a number of single blossoms bunched together. This was fastened in the fold of a napkin.

No. 3 is a canoe basket made by Scallen. This is a large canoe of braided rush filled in the centre with Cattleya Triane, and these same flowers on the blades of

the paddles also. The edge of the canoe was trimmed with white lilacs. It is an exceedingly beautiful piece and can be filled with growing plants if it is so wished.

No. 4 is Mr. Hanft's four-leaf clover basket. This is a large sized basket in the form of a four-leaf clover, its leaves are turned up and edged with white lilac; the spaces between the leaves being filled with flowers; Cattleyas in one space, La France roses in another, American Beauties in the third space and Violets in the fourth. The handle is trimmed with roses, foliage and white lilacs. F. A. B.

The Badge Business.

ED. AM. FLORIST:—In your account of the meeting of the Executive Committee of the S. A. F. at Toronto occurs the statement that "the Executive Committee finds that this plan (the numbered badge plan) in its present shape is impracticable and inadvisable." This means, of course, that it is dropped again.

Now I would refer these gentlemen to the proceedings of the society at its Buffalo meeting, not to speak of any previous discussions or recommendations on the subject. On pages 18 to 21 of the 1889 report will be found some interesting reading in this connection, ending with the following action:

"Mr. J. M. Jordan moved the acceptance of the report. (This was my report as chairman of a Committee to prepare a plan, and contained a definite and practically-found successful scheme for the purpose.)

"Mr. H. A. Siebrecht, of New York. I

would like to embody in the motion a provision that the necessary amount of money be appropriated at this meeting to carry into effect the recommendation made by Mr. McFarland so that at our next meeting the plan may be in operation. * * *

"Mr. Jas. Hendrick, of Albany. I rise to express my full approbation of the plan proposed by Mr. McFarland, and to ask that the report, as read, be accepted, and the details of it referred to the Executive Committee to be carried into effect next year. * * *

"Mr. Jordan. I accept the suggestion as a modification of my motion.

"The motion prevailed without objection."

Thus it appears that the Executive Committee was instructed, not recommended, to carry out the plan as outlined in the report of the committee appointed for that purpose at the New York meeting. Now did they do it? Let us see.

After the January meeting of the committee in 1890, I was informed by the secretary that \$25.00 had been appropriated for the carrying out of the society's directions in regard to the badge matter, and that I was selected by them to do the work. I informed the secretary that the amount was probably entirely inadequate for the purpose, and suggested that it would be well to so inform the committee. Not hearing anything further and being very busily occupied, I gave the matter no further attention until within about eight weeks of the Boston meeting, when some communication was had with the secretary of the society showing the actual expense of the work

and making certain proposals for its carrying out as per instructions, with the idea that the expense would be borne by the society which had ordered the work. No one would do anything, and it was quite evident that at least some of the officers of the society were thoroughly hostile to the plan. In fact, it was intimated to the writer by one member of the Executive Committee that the appropriation of so small a sum for carrying out this important work was designedly made insufficient.

This was not the first time that a vigorous effort had been made to get this matter tried at least. The previous year the writer offered to bear all of the expenses connected with the plan save the mere sending out to members, providing the officers of the society would father it and insert the plan in the official programme. This they positively declined to do.

Now with the above statements of absolute facts, I respectfully submit that the Executive Committee has gone beyond its authority. I see nothing in the constitution of the S. A. F. which authorizes the Executive Committee to positively refuse to carry out plain and simple instructions of the society in its general meeting assembled. The statement that the "plan in its present shape is impracticable and inadvisable" admits of considerable inquiry, as the plan has not been tried by the S. A. F. at any time or in any shape, and has proven a thorough success with the only other cognate society which has tried it, the American Association of Nurserymen. This last assertion is abundantly verified by the statements of our own members at many meetings and is well known to be thoroughly true.

The writer has been fighting this battle for four years. Last summer, after the practical refusal to carry out instructions by the Executive Committee, he was advised by a prominent member of the society, and one of its most honored past officers, to carry out the plan himself and take advertising to pay the expense. Although this was entirely practicable and might have been profitable he refused, as he thought the general sense of the society was in favor of the plan as evidenced by its unanimous vote in favor of it and that they would unquestionably see it through. Now what is to be done? If it is to be dropped, what is the conclusion? Is the committee greater than the society which gives it birth? If so, let the rank and file of the S. A. F. know it.

J. HORACE MCFARLAND.

[We think it fair to the Executive Committee to explain their views as stated at Toronto to be in substance these: Chairman McFarland had in 1889 offered to do the work free; for 1890 they offered him \$25.00. This he neither positively accepted or positively declined until very near the 1890 meeting; too near to arrange for more money to do the work. The responsibility of issuing orders to go ahead for 1891 and making another appropriation for the same, the committee did not wish to assume. Doubtless Secretary Stewart can and will make all these much more clear having the subject fully in hand.—Ed.]

Vanda Amesiana.

This beautiful new vanda is the companion plant to V. Kimballiana, both varieties being introduced from the northern part of India, by Hugh Low & Co., of London.

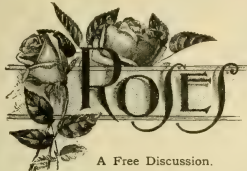
Sepals and petals pure white, with lip

slightly tinged with purple; each flower measuring about two inches in diameter.

It seems to be a very easy growing variety, the temperature of the cattleya house suiting it admirably.

I think it will be a fine thing for florists' use when it becomes cheap enough for them to handle. I consider it one of the most beautiful orchids of recent introduction.

GEO. SAVAGE.



We give below some extracts from the discussion which followed the paper on roses read by Mr. J. N. May before the Mass. Hort. Society at Boston, Jan. 24, and which we printed in last issue:

Michael H. Norton asked whether Mr. May found a ready sale for his roses, and for what class.

Mr. May replied there is no difficulty in disposing of such roses as those on the table, though you cannot always get the best prices for them. There is no question that roses and other flowers are a luxury, which cannot be afforded by all. He had seen 37,000 roses in the market at 9 o'clock, of first quality, and at 11 o'clock only 3,000 of them were left. A year ago roses brought from fifteen to twenty-five dollars per hundred, and this year not much more than one-half as much. When the market is overstocked, the second quality have to be sold to street fakirs, and some one gets the advantage. For his part, said the speaker, he would never see a flower consigned to the ash barrel, but would rather have surplus flowers sent to the hospitals, etc. He would like to have ways and means by which growers could dispose of their surplus stock profitably; one way to prevent an overstock is to grow better flowers. Nothing injures the flower market more than to have a lady buy flowers from twenty-four to forty-eight hours old, and which fall to pieces soon after she gets them home.

Mr. May said that there was no room in New York for poor roses. Which are most profitable depends very much on who raises them. Ma Capucine is one of the most lovely, and brings in the most money by twenty-five per cent.

In answer to an inquiry concerning the Ulrich Brunner rose, Mr. May said that New York market is a ticklish place. General Jacqueminot was most popular for several years, and then ladies took a notion to yellow roses, and when the tide turned again in favor of red roses, a neighbor of his who had hung onto his old favorite (Jacqueminot) was the only one who had red roses. Ulrich Brunner has always been in demand in New York, but not quite so much this year as in previous years. One grower, who had a fine house, found some difficulty in selling them. From the middle of January onward there is no difficulty in selling really fine specimens of this variety, but they must have stems two or three feet long and the flowers must be four or five inches in diameter. Mrs. John Laing is one of the most popular roses in New York; it is fragrant and sure blooming, but cannot be forced for Christmas.

William C. Strong inquired how benches answered for forcing hardy roses. His experience had been with them planted in solid beds, two, three or four years, and he doubted whether it would pay to plant every year.

Mr. May said that the trouble comes here if ladies get a fair rose to-day they want one earlier next year, and they cannot be forced earlier in a solid bed, though for March blooming it will do and they will last for years. He had seen a greenhouse 18 feet wide and 210 feet long, filled with General Jacqueminots planted eight or nine years, where 237 buds were counted in a space two feet square, and 37,300 buds were cut from that house.

In answer to an inquiry concerning the introduction of new roses, Mr. May said that twenty-five years ago he was growing roses in England, and they used then to get their new varieties mostly from France. One autumn he went over to France and visited M. Pernet, one of the great rose growers, who showed him several new varieties to be sent to England, and some others, inferior to them, which were thought good enough for the American market. Two years ago he paid a French grower \$530 for new roses, at \$5 per plant, and they all went into the rubbish heap in six months. (Once in a while we strike such a gem as C. Mermet, the finest of all tea roses.)

An inquiry was made in regard to the Anna Alexieff and Heinrich Schultheis roses. Mr. May said that the former is almost as old as himself, and, as grown around New York, is most prolific for early forcing. Heinrich Schultheis is one of the finest of all for early forcing, though discarded in France and England. It is every way superior to Magna Charta, which goes off in color when forced, and has failed to come early. Mr. Assmus, one of the best New York growers, has failed with it for very early, but has fine ones coming on now.

President Spooner said that Heinrich Schultheis is very fine in the garden. Anna Alexieff is not so good in the garden being too shortpetalled; its only merit is its earliness.

In answer to the question, What is the best Tea rose? Mr. May said that of Tea roses without any admixture, the Bride is unquestionably the best. Of hybrid Teas, the Duchess of Albany is best; it is of magnificent color, clean all the way through and fragrant. If too much heat is given, it becomes purple.

Patrick Norton said that the Ulrich Brunner rose finds a good market in Boston.

President Spooner said that the Ulrich Brunner is fine in the garden.

John G. Barker had hoped for a paper on the rose as a bedder, he was more and more impressed with the view that we can make our gardens more beautiful with more flowering plants and fewer foliage plants. He had a bed last season planted with La France roses, surrounded with Hemosa and Agrippinas; it was not as satisfactory as he hoped; but the field is still open.

President Spooner mentioned among the newer roses, Gloire de Margottin, of dazzling red color and Gloire de Lyonaise, of lemon color, but a Hybrid Tea rather than a Remontant.

Mr. May said that he felt much enthusiasm over the Gloire de Margottin; it is of a most glorious color. As regards forcing, he was rather disappointed with it; it has a weak stem but is one of the finest for summer bedding. All like the color. Gloire de Lyonaise was a disappointment to him.



VANDA AMESIANA

In answer to an inquiry concerning grafted roses Mr. May said that he was a great advocate for roses on their own roots. If a plant of La France on its own roots is killed down it will sprout again from the root, but you can not get so large a plant the first year as if grafted. If a lady sets out a dozen plants on their own roots she will have good bushes a dozen years hence, but if she sets out grafted plants she will have in two years a lot of Manetti stocks. A neighbor of the speaker's planted thirteen years ago twenty-five La France on their own roots, they are now six feet high, and last July he cut two hundred flowers from them.

F. L. Harris said that if we import roses budded low down and plant them deep they will stand our climate well and in one year give more flowers than plants on their own roots will give in two years. Once in a while we get suckers from the stock, but any one who studies the character of the shoots can remove them. The speaker would not, however, like to

have plants budded five or six inches high.

President Spooner said that he was a strong advocate for budded roses, if budded in the right place and properly grown. They should be planted so as to have the stock three or four inches beneath the surface, and the bark should be raised a little on each side; you will then get a better plant in one year than in three or four years if they are on their own roots. The Manetti stock is the best for light soils; the briar sends up too many suckers. All the best roses that come to our shows are from budded stocks. He does not want to wait four or five years to get a strong plant.

Among the best summer roses are La France, and for later Fisher Holmes or Prince Arthur, (the last named a seedling from General Jacqueminot), Heinrich Schultze and Lady Helen Stewart. For white, Merveille de Lyon and Mabel Morrison, Gloire de Lyonaise throws up fine shoots. Madame Victor Verdier is a grand garden rose. Alfred Colomb is a globular form and high scented. Mme.

Isaac Pereire, a Hybrid Bourbon, is a good climbing variety. Earl Dufferin has a full flower and is destined to be one of the best. Marshall P. Wilder is too much like Alfred Colomb. Mme. Montet is a free flowering variety and of very fine color. Mme. Gabriel Luizet is very desirable for this purpose. Mrs. John Laing is almost as free flowering as General Jacqueminot.

Mrs. H. L. T. Wolcott asked the president if when budded plants are set out as recommended by him you do not virtually have a plant on its own roots; to which he answered yes. Mrs. Wolcott went on to say that a good while ago she planted budded roses under the direction of the late Herman Grunzel, who advised her to lay them down so that they would root from the grafts, and she saw them twenty years afterwards and never saw better bushes or a better show of flowers.

Coming Exhibitions.

March 17-20, Philadelphia.—Spring exhibition Pennsylvania Hort. Society.

March 25-27, Boston.—Spring exhibition Mass. Hort. Society.

April 7, New York.—Spring exhibition New York Florists' Club.

April 14, Los Angeles, Cal.—Rose show Southern California Floral Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

Catalogues Received.

John R. & A. Murdoch, Pittsburg, Pa., plants, seeds and nursery stock; Joseph Breck & Sons, Boston, seeds and plants; H. Cannell & Sons, Swanley, Kent, England, plants; same, seeds; A. D. Cowan & Co., New York, seeds; United States Nurseries, Short Hills, N. J., orchids; same, dahlias; same, descriptive catalogue of their flower show last November; same, chrysanthemums and single dahlias; Henry Kaufman & Son, Springfield, O., plants; E. G. Hill & Co., Richmond, Ind., quarterly wholesale list plants; V. H. Hallock & Son, Queens, N. Y., retail seeds and plants; same, trade list seeds and summer flowering bulbs; Wm. Stahl, Quincy, Ill., nursery stock; Denys Zirnigle, Needham, Mass., carnations and pansies; Wood Bros., Fishkill, N. Y., trade list plants.

Duty on Seeds.

Please let us know through your paper how much duty on a pound of seeds from Europe by the new bill.

A BUFFALO SUBSCRIBER.

[If flower seeds nothing. If vegetable seeds, 20 per cent on invoice value. Some agricultural seeds are free.—Ed.]

A SPECIMEN BLOOM of a seedling carnation has been received from Mr. John Moore, Little Silver, N. J. It is of good size, dark pink lightly striped with lighter shades, and fragrant. It may become useful but for a cut flower sort a solid color is usually preferred, though this is certainly a pretty flower.

News Notes.

BARRIE, ONT.—McVittie & Browne have succeeded Morgan & McVittie the florists here.

FREDERICK, MD.—Erase from the directory list of this place Hahn & Tyerary and Cyrus Helenstein.

NEW BRITAIN, CONN.—A paper on tuberous begonias will be read at the next meeting of the Horticultural Society to be held March 1.

PROVIDENCE, R. I.—Miller Brothers & Chapell, the florists of Springfield, Mass., have opened a branch store here, at 307 Westminster street.

BARABOOK, WIS.—William Toole's greenhouses were completely destroyed by fire the night of February 3. The loss is quite heavy with no insurance.

THOMASVILLE, GA.—We don't need fire heat to grow flowers here this winter. Outdoor roses are in full bloom and every thing has the appearance of May.

WILMINGTON, DEL.—Harry P. Potter has succeeded James N. Lewis & Bro., the florists at 24th and Market Sts., having purchased the business from them.

RAY CITY, MICH.—The new horticultural society is increasing in membership rapidly and it is probable that a chrysanthemum show will be arranged for next November.

LOUISVILLE, KY.—The table decorations at the recent banquet at the Commercial Club, arranged by florist C. W. Reimers were freely praised by the local press. Orchids were used among the other flowers.

LOS ANGELES, CAL.—At the meeting of the Southern California Florists Society held February 9, a very interesting paper on aquatics was read by Mr. E. D. Sturtevant, the well known grower of aquatics at Bordentown N. J. and this city.

CONNELLSVILLE, PA.—P. R. McDuff rebuilt his establishment last fall on a new location about three miles from his old stand. He has one house 20x100, two plant houses 20x55 each and one 11x55, headed by a No. 8 Herendeen steam boiler.

BROOKLYN, N. Y.—A local daily tells an awful story on a prominent citizen who paid \$4.25 for a half dozen fine large bulbs of a peddler who claimed they were a rare variety of waterlily. The gentleman has just discovered that they are the simon pure skunk cabbage.

SPRINGFIELD, MASS.—Miller Brothers & Chapell, the florists of 263 Main street, have opened a branch store at 307 Westminster street, corner of Walker street, Providence, R. I. It is a large store with show windows and entrances on both streets. Charles K. Miller will have the management. C. F. Fairfield is cutting some fine roses, and says they are better and more plenty than ever before in this city. Business here is better than last week and the stock of flowers is being used up pretty close from day to day.

SUMMIT, N. J.—On Tuesday, January 20, the members of the New Jersey Society Florists' Club at a special meeting preferred their late secretary, Mr. Alfred Dimmock (who had to resign his position on account of going to England very shortly) with a gold watch and chain in token of their esteem for him and the

great interest Mr. Dimmock had taken in the club. From the date of its inception he has been one of the leaders in all movements which would be to the interest of the members generally which was acknowledged by the presentation of the above token.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion must be accompanied by order. Plant ads not admitted under this head.

SITUATION WANTED—As gardener or florist by a young man; 8 years' experience and best of references. H. OLSON, 317 W. Folk St., Chicago, Ill.

SITUATION WANTED—By a practical florist, gardener and landscape gardener, 25 years' experience. Address G. M. care Am. Florist.

SITUATION WANTED—As gardener, or manager of a small greenhouse by a respectable single man; honest; No. 1 references. Address A. W. Box 355, Riverside, Cook Co., Ill.

SITUATION WANTED—Till March or April, by a J. Dane, as gardener's assistant, in large private or commercial place. Good references; 7 years' experience. Address R. F. care American Florist.

SITUATION WANTED—By March 1 by a first class N. gardener and florist; 12 years' experience; at present growing plants of a large private establishment, State. Best of references. Address staying salary, R. P. 250, Port Chester, N. Y.

SITUATION WANTED—By a first class florist and gardener, 10 years' experience; in large private or commercial place. Good references; responsible position as foreman preferred; single; references. Address A. D. A. care American Florist, Chicago.

SITUATION WANTED—By a first class florist and gardener, German; married; 15 years' experience, good plant and cut flower grower. Best references from leading places. Address A. PUTZEMICH, Pine Ridge, Buffalo, N. Y.

SITUATION WANTED—By a first class English N. florist, good rose and cut flower grower; can handle the stove and greenhouse plants in general. Competent to take charge; 14 years' experience. References G. A. care American Florist, Chicago.

SITUATION WANTED—By a German; married; 15 years' experience; in large private or commercial place. Good references; responsible position as foreman preferred; single; references. Address ALBERT DORF, 154 School St., Lake View, Chicago.

SITUATION WANTED—By a florist of 5 years' experience—New York State preferred—private or public establishment. Good references; married man; understands all kinds of greenhouse work; also floral or party decoration. Address FLORENCE, 38 Tracy St., Utica, N. Y.

SITUATION WANTED—By practical gardener and florist; single; middle aged, who has devoted all his life to the business. First class rose grower. Knows something about forcing in greenhouses. Capable of taking charge, commercial or private. Satisfaction assured. Satisfactory references. Address FLORIST, Astoria Postoffice, Long Island.

WANTED—A young man with some experience as assistant. References required. Address JOHN RECK, Bridgeport, Conn.

WANTED—Bookkeeper and correspondent, one who is experienced in seed and plant business. Give references. Lock box 168, Philadelphia, Pa.

WANTED—By May 1st, a few thousand ft. second class roses and a few good hotbed plants. Address, stating lowest cash price, ROBERT T. MCGURU, Wellesley Hills, Mass.

WANTED—Assistant florist; one who can grow and propagate. Good work as assistant, character and ability. Permanent place for right man. W. W. GREEN & SON, Watertown, N. Y.

WANTED—An able, working gardener, to take charge of vegetable trial ground. Must have experience in growing all kinds as well as keeping records. HENRY A. DEER, Philadelphia, Pa.

WANTED—Industrious young man with some experience in greenhouse work as assistant in market gardening and plant growing business—German preferred. State wages expected. Address RICHARD GUTH, Ft. Wayne, Ind.

WANTED—Active business man with cash to take an interest in first-class florist business, well established. 8 greenhouses 100 ft. each, heated by steam, well stocked and in good condition. Address J. CLIFF, care Am. Florist, Chicago.

WANTED—A young man for the spring season, of good habits, for general greenhouse work. Small place in Mass. Address, with wages, experience and recommendations. C. E. care American Florist, Chicago.

WANTED—Two practical gardeners, one to take charge of hardy plants and a flower grower, the other to be thoroughly posted in vegetable growing. Apply with full particulars to HORTICULTURE, box 581, New York City.

WANTED—A practical, first class florist to take half interest in a flourishing business; not much capital required; will take labor as security. Single man preferred. Address A. B. 429 South Water St., Maunee, Mich.

WANTED—By middle of March, German, married man to take charge of cut flower department in commercial place, to grow for Boston market. Must be good rose grower. Permanent place for good man. Address, giving experience, references, age and what is expected, ROSE GROWER, care American Florist.

WANTED—Gardener; married; one that has had experience in cemetery work and can act as foreman. Good recommendations required. Also \$65 per month with board. Also wanted young man; must be a first class plantsman. Wages \$50 per month with board. Apply to A. F. F. Supr. Riverside Cemetery, Denver, Colo.

FOR SALE—Handsome solid cherry florist's ice box, size 11 feet high, 8 ft. long, 35 ft. wide, with insulated iron pans. Cost \$1,200; will sell for \$100 cash, o. b. c. b. c. Great bargain. FOSTER GLENN FLORAL CO., 307 Lake St., Chicago.

FOR SALE.

Five greenhouses in town, 100,000 good shipping facilities, railroads leading in sixteen directions (one of the best openings for live, capable man). Property free from all incumbrances. No capital required, good security for balance.

Z. care American Florist, Chicago.

A BARGAIN.

Rare chance for an enterprising florist, having some capital. Large home trade. Leading shipping trade in S. E. Ohio. Sales during first year will more than equal the purchase price. For sale or lease. Houses stocked and equipped. Must sell for good reasons.

E. L. KOETHE, Zanesville, O.

FOR SALE.

The Walkerton greenhouse and Market Gardens. These premises consist of two acres of first-class land with 2,500 small fruit trees, a neat two-story brick dwelling, with a large house, a large barn, and all with all modern improvements; well stocked and necessary hotbeds. No opposition near than 400, 0 miles distant. Also 65 acres of highly cultivated good land under lease for years on good terms, which is large room for building nurseries, and lawns of strawberries. Apply to ORSHAW & SHAW, Walkerton Ont., Mich.

Florists Take Notice FOR RENT.

A square of ground fronting on Market street, Philadelphia, Pa., 500 ft. x 100 ft. to Ludlow street. A very desirable location for a florist. Apply to THE REAL ESTATE INVESTMENT CO., 721 Walnut St., Philadelphia, Pa.

DAISY SNOWFLAKE

Daisy Snowflake—This Daisy, if treated like Violets will give splendid results. It labor bested upon for 20 years, and the thousands and cannot supply the demand for cut flowers, as it keeps fresh from 2 to 3 weeks, and being cut and then looks as fresh as other white flowers just cut. The flowers are borne on long stems, being cut and beautifully quilled, and average as large as a 50 cent piece; a great acquisition to florists.

Price, \$1 per dozen free by mail \$5 per 100 by express.

SEE WHAT F. J. KELLER SAYS ABOUT THIS DAISY: ROCHESTER, Jan. 28th. Daisy Snowflake is quite a useful flower both for floral designs and put in with cut flowers, and when tied up in small bunches they sell very rapidly with for funeral designs. We use a great many in place of carnations as it is cheaper and covers almost the same space, and keeps fresh so durable longer. Be sure and send me every Daisy you can cut, as I cannot get them fast enough for my customers. I have been cutting and selling them because it keeps fresh for 2 to 3 weeks, I feel I cannot say too much in favor of this useful Daisy. F. J. KELLER.

FRED SCHNEIDER, Wholesale Florist, Wyoming Co., ATTICA, NEW YORK.

FLORAL DESIGNS.

The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address (with \$3.50 for the book) H. HORACE McFARLAND, Box 655, HARRISBURG, PA.

CHEAP FOR CASH. 1000 Dracæna Indivia, fine specimen plants, \$5.00 to \$10.00 per dozen.

Dracæna congesta, \$3.00 to \$5.00 per dozen. Dracæna sp. 3 ft. tall, \$1.00 to \$2.00 per doz. Violets Marie Louise, big clumps, \$1.00 per doz. Healdia (white), \$1.00 to \$2.00 per doz. Hulse's White Chrys. Summer, Mrs. Gardell, Emp. In Morocco, \$1.50 per doz. Zinnia (white), 25 cents each.

ALBERT FUCHS,

Kranston Ave. near Sheridan Blvd., City & Co.

CARNATIONS, best standard sorts, root-cut early, \$3.00.

DRACÆNA Indivia, fine stock, 6c-10c. MCGEE & COLE, Battle Creek, Mich.

— ORIGINAL AND LARGEST GROWERS OF —

LILIAM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

— BULBS NOW READY FOR DELIVERY. —

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 140 in length, of a crop of Liliam Harrisii in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter. In fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it is in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 20,000 bulbs for his own use. We hear it said occasionally that Liliam Harrisii flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one: it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as HEADQUARTERS FOR THE BERMUDA EASTER LILY; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

— HALF A MILLION BULBS. —

Be sure you get the genuine Liliam Harrisii. In order to secure "the true variety" purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant L. Longiflorum in Bermuda, planting it with Harrisii to increase their stock rapidly when Harrisii was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand: "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Crude Oil for Fuel.

In answer to Mr. Sweeney's inquiry about oil or gas for greenhouse heating, this is the second winter I have used crude oil, and find I make a saving as near as I can estimate of not less than 50 per cent over coal at \$3.50 a ton. The oil cost this season 53 cents a barrel delivered on car here, and I also save the handling of coal and ashes and have no soot or dust.

I have a 20-horse power common tubular boiler, carrying from 10 to 15 pounds of steam and it will run all night with very little variation, and on the coldest night have not used more than one and one half barrels of oil. Have about 5,000 feet of glass and am satisfied could heat twice the amount with same apparatus and very little addition of fuel.

The arrangement necessary to storing and burning the oil did not cost to exceed \$50, and now can burn coal or wood without making any change.

THOS. LEWIS.

Lakeside Park, Warsaw, Ind.

Regarding the query in last issue, one very decided objection to the use of crude oil for fuel is that the smell of the oil makes your establishment more or less of a public nuisance. It seems to be impossible to store the oil so as to hold the objectionable odor in check. It is wonderfully penetrating and when a quantity is collected together it sends forth on every breeze odors which at times are very offensive. I know one florist who uses the oil for fuel. His place is near the railroad station and he can always tell when the train is approaching that station by the smell of oil which is ever present. D.

ROSES.

Roses bought now for \$40 per 1000, or \$35 if our selection. Will net the purchaser over 100 per cent. by Spring.

100,000 in 50 Leading Sorts READY NOW.

— ALSO THE CREAM OF —

Chrysanthemums and Bedding Plants.

Largest and most select stock in the South-West. Over THREE ACRES UNDER GLASS.

Send in your lists to be priced.

Wholesale and Descriptive Catalogue of 90 pages free to all.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

Our stock of this variety will all be re-handled at our own greenhouses so they may be in the best possible condition

when they leave our place, on the same date as sent out from Boston—April 15. For this reason customers in OUR TERRITORY will be believe do well to secure their supply either directly from us or through jobbing agents using our stock. We will give names of such on application.

J. C. VAUGHAN, CHICAGO.

ROSES.

We are now taking orders for delivery after March 1st, on the following varieties: 5-inch pots: *Perles, Niphotos, Souv. du Ami, Cook, La France, Bennett, Bride, Mermel, Woolton, Heile and Beauty*, etc. ordered in rotation, and good stock guaranteed. Reasonable prices given upon application.

Address **GERMOND & COSGROVE,**
Rockland County, SPARKILL, N. Y.

ROSES.

WABAN, SOUV. DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other NEW and Standard varieties of Teas; also all the best varieties both new and old of the Hybrid Remontants including the variety which

MR. JULIUS ROEHR'S

has forced so successfully for the past three years, and which has proven itself by far the best variety of this class for very early forcing yet introduced; also all the best varieties of

HYBRID TEAS, CHINAS, AND BOURBONS,

For Forcing, Bedding, etc., etc. All of which I now have an EXTRA fine stock at prices as low as any one can produce such stock for.

MY NEW TRADE LIST in now ready and will be mailed to all applicants.

JOHN N. MAY, Summit, N. J.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.
THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices
Now Ready.

SEEDS

ROSES

Seeds, Plants, Shrubs, Vines,
Fruit & Ornamental Trees, Etc.

CATALOGUE FREE.

Over 150 pages illustrating and describing one of the largest and best assorted stocks of Seeds, Trees and Plants in the U. S. Best value for the money in our Tested Novelties and Special Low Priced Collections.

37 YEARS. 25 GREENHOUSES. 700 ACRES.

THE STORRS & HARRISON CO.,
Painesville, Ohio.

ROSES.

PERLE DES JARDINS, NIPHOTOS, C. MERMEL, THE BRIDE, CORNELIA COOK, PAPA GONTIER, MARIE GUILLOT, AGROPINA (Syn. Queens Scarlet), ARCH DUKE CHARLES, S. D'UN AMI, MME. F. RUEGER, DUCHESS DE BRABANT,

In 2½-in. pots, price \$4.00 per 100; \$40.00 per 1000.

Own selection \$35.00 per 1000.

CLOTILDE SOUFERT, a fine new White Rose, \$6.00 per 100.

Onychium Japonicum, a fine Fern for cut flower work, 4-in. pots, \$10.00 per 100.

Ficus Elastica, 4-inch pots, \$2.50 per dozen.

Cycas Revoluta, 6-inch pots, \$5.00 per dozen.

Cycas Revoluta, larger plants, \$20.00 per dozen.

The roses are all fine healthy plants, with plenty of roots—will give entire satisfaction.

Address **A. LAUER,**

1210 East Broadway, Louisville, Ky.

E. G. HILL & CO.,

RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAVES:

ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported

FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.

IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best results to the florist. Blooming freely and giving plenty of cuttings for propagation quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

CUT SMILAX.

I make a specialty of Smilax, and am prepared to fill orders promptly. Prices 30 cents per string, till May 1st. Quality A. 1. **JOSEPH E. RONNALL,** Telephone No. 15. 308 Garfield Ave., Salem, Ohio.

MY SPECIALTIES ARE THE ROSES

MME. CUSIN
AND

Mme. de Watteville,

for which the
SUNNYWOODS GREENHOUSES

have become famous.

I will have a limited number of plants of the finest stock grown of the above varieties; all strong plants, from 2½-inch pots, \$6.00 per 100.

Also THE BRIDE and C. MERMEL at \$53.00 per 1000 and the AMERICAN BEAUTY at \$80.00 per 1000. Smaller quantities at proportionate rates.

FRANK L. MOORE, Chatham, N. J.

Dwarf Budded Roses.

The stock we offer this season is in unusually fine condition and includes all the leading varieties.

Anna de Diesbach, Mad. Gabriel Lucet, Alfred Colomb, Mabel Morrison, Baroness Rothschild, Magna Charta, Baron de Bonstetten, Marie Bauman, Boule de Neige, Merveille de Lyon, Paul Christy, Paul Neron, Fisher Holmes, Prince de Rohan, Gen. Jacqueminot, Queen of Queens, Louis Hopper, Ulrich Brunner, Louis VanHoutte, White Baroness, La France. \$2.00 per 100; \$10.00 per 1000.

A fine lot of Marechal Niel with canes 10 to 12 feet long, \$1.00 each.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of 2½ and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general green house stock.

Trade list mailed on application

JACOB SCHULZ,
Louisville, Ky.



THE NEW ROSE

WABAN

This very valuable rose originated at the Waban Conservatories of E. M. Wood & Co., Natick, Mass. It is a *SPORT* from Catherine Mermet and identical with that variety in every characteristic, excepting color, which is a rich, deep, **BRIGHT PINK**; it sustains the same relation to its parent as Duchess of Albany does to LaFrance. The only objection to C. Mermet is its frequently pale, insipid color in cloudy weather; experience has shown that the **WABAN** retains its deep rich color in all kinds of weather; it will, without doubt, prove to be as valuable as *THE BRIDE* which is also a sport from the same magnificent variety.

IT HAS ALREADY RECEIVED THE SILVER MEDAL

of the Massachusetts Horticultural Society; of the Pennsylvania Horticultural Society, and **Certificate of Merit** from each of the Societies in this country and Canada where it has been shown,

Ready for Distribution on April 15th, 1891.

Orders booked now, will be filled in strict rotation.

Extra good plants from 2½-inch pots.

1 Plant, \$ 1.00	250 Plants, \$100.00
12 Plants, 9.00	500 " 175.00
50 " 30.00	1000 " 300.00
100 " 50.00	

From 4-inch pots.

1 Plant, \$ 1.50	50 Plants, \$ 40.00
12 Plants, 15.00	100 " 75.00
25 " 25.00	

The following Agents have been appointed to sell the Rose in the respective territories given below:

W. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th & Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
25 times, 20 per cent; 52 times, 35 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in goods pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WE HAVE received a copy of the prize list and programme of the Pennsylvania Horticultural Society for the year 1891. There will be but two main exhibitions, the spring show March 17 to 20 and the chrysanthemum show November 10 to 13. There will be a minor exhibition in connection with each of the monthly meetings. The premiums named for the two main exhibitions are very liberal. The leader at the spring exhibition is a first premium of \$75 for collection of orchids, plants in bloom, a second prize of \$50 being also offered for the same. At the chrysanthemum show the premier prize is for collection of ten plants, ten varieties, for which prizes of \$100, \$75, and \$50, are offered, and orchid growers will again be attracted, prizes of \$50 and \$25 being offered for best collection of plants and cut flowers. Copies of the programme containing the full premium lists, rules, etc., can be had on application to D. L. L. Farson, secretary, Horticultural Hall, Broad St., Philadelphia, Pa.

FROM Mr. A. J. Frost, a florist of Toronto, Ont., we have received several branchlets of similar the leaves of which are much larger than usual. All exceed one and one-half inches in length, many are nearly two inches long and the width of the blade is in proportion. He states that its habit of growth is quite like that of the type but more robust. It is doubtful whether the large size of the leaves will make it especially desirable but if a more rapid grower it will certainly be useful if it will come true from seed and retain that characteristic.

A CURIOS break of the carnation is seen in a flower sent by Messrs McVittie & Browne, Barrie, Ont. It is a sport from Mrs. Carnegie and has the character of that variety except that across the center the petals have assumed the variegated markings of the Chester Bride type. It could be "fixed" in character it would probably be useful as catalogue novelty, but it is doubtful if it would be acceptable as a cut flower to commercial growers.

VERBENAS.

IN 15 CHOICEST VARIETIES, NICE HEALTHY and CLEAN stock. Per 100
CHINESE PRIMROSES, from choicest seed 2 1/2 inches. \$2.75
GERANIUMS, 20 good salable vars., 2 in. 3.00
CANNAS, dry bulbs, choice kinds 2.50
CHRYSAETHUMS, in splendid assortment 4 inches. 4.00
ASPARAGUS Tenusissimus, 2 1/2 in. 2.50
COLEUS, best varieties, 2 in. 2.50
HELIOPTROPS, 20 in. 3.00
DOUBLE WHITE FEVERFEWS, 2 in. 3.00

Address N. S. GRIFFITH,
JACKSON CO. INDEPENDENCE, MO.

(Independence is well located for shipping, being 8 miles east of Kansas City.)

Mention American Florist.

IMPORTANT TO ALL FLORISTS.

Our new trade list of 50 pages and our descriptive catalogue of 100 pages is now being mailed to you. Should you not receive a copy within a few days, notify us and we will send you one.

Without any desire to brag we assure you we have the largest and best collection of Chrysanthemums in the country.

All stock is bloomed before propagated from. Our list contains over 600 varieties. We also publish a list of synonyms in our catalog.

Pamphlet of "Summer Flowering Bulbs" 20 pages mailed on application. Price \$3 per 100. Our name does not appear in the pamphlet, therefore it is highly valuable for those having a counter trade. Our list of dormant bulbs is the largest and finest of any in the country.

We have so much of interest to florists and others in our catalog that we cannot begin to mention any.

Blanche Perry Sweet Pea, proved of great value last year as a cut flower. We have a large stock of fresh seed at 10 cents per c2; \$1.00 per lb.

You will bear in mind we told you last year that Chrysanthemum V. H. Hallock was a good one. You will hear from this later on. We also recommended Charity and White Cap on our last years set as being particularly valuable for florists' use. Prices in quantity on application.

V. H. HALLOCK & SON, QUEENS, N. Y.

Mention American Florist.



ORDER NOW FOR SPRING TRADE

Hardy Shrubs for Eastern Gardens.

JAPAN MAPLES in 20 choice sorts.

Japan Magnolias; Stellata, Conspicua, Parviflora, etc.

Tree & Herbaceous Pæonias, Iris Kämpferi in newest magnificent coloring.

Hardy Conifers. New sports of Relinosporas.

MINIATURE JAPAN CONIFERS.

Cycas Revoluta Stems greatly reduced.

Araucarias, Tree Ferns, Bamboos.

We furnish RELIABLE goods at correspondent rates.

Send for Catalogue to

H. H. BERGER & CO.,

P. O. Box 1501, SAN FRANCISCO, CAL.

50,000 READY NOW. 50 VARIETIES.

Strong plants, 2 1/2-inch pots. \$2.50 per 100; \$25.00 per 1000
Rooted Cuttings, 2 1/2-inch pots. 1.00 " 8.00 "

Our Verbenas this year are the best we have ever grown.

No Rust or Mildew.

Packed light, and satisfaction guaranteed. Sample on receipt of 25 cts.

J. L. DILLON, BLOOMSBURG, PA.

VERBENAS.

PERFECTLY FREE FROM RUST.

20 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$25.
Rooted cuttings of same, 100 \$1; 1000 \$9.
Fine stock Heliotrope, 2 1/2-inch, \$3 per 100.
Primroses, double, per 100 \$12.00.
Single, per 100 \$8.00.
Geraniums—latest Novelties.
Latania borbonica, 5-inch \$4.00, 4-inch \$3.00 per dozen.
Miscellaneous stock of all kinds.

ROSES.

Mad. Hoste, La France \$5.00 per 100.
Duchess of Albany \$7.00 per 100.
Gonthers, Perles, Mermets, Bon Silences, Brides, Niphetos and 50 varieties of monthly roses, \$4.00 per 100 or \$35 per 1000.
H. P.'s purchaser's choice, \$6.00 per 100 or \$60.00 per 1000.
H. P.'s, our choice, \$5 per 100 or \$50 per 1000.

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

Mention American Florist.

VERBENAS.

STRONG PLANTS, 2 1/2-INCH POTS, \$2 per 100; \$18 per 1000; well mixed.

Rooted Cuttings, clean and sure to please, \$5.00 per 100.

CASH WITH ORDER.

W. B. WOODRUFF, Westfield, N. J.

Mention American Florist.

VERBENAS.

—STRONG AND HEALTHY.

Ready for immediate shipping. Per 100 Per 1000
General Collection stock plants, named \$5.00 \$55.00
XX Mammoth Set. 1.00 30.00
Chrysanthemum Rooted Cuttings. 1.25 10.00
General Collection 1.00 8.00
Coleus Golden, Verschaffeltii, Golden Bedder, Hero, Verschaffeltii and 25 other varieties. 8.00 80.00
Heliotrope, Rooted Cuttings, named. 1.25 10.00
Gazanias 1.25 10.00
Calceolarias 1.25 10.00
Aceratum 1.25 10.00
Bewickii, The Gem, Rooted Cuttings. 1.25 10.00
Salvia Splendens 1.25 10.00
Bexonia Rubra, Metallica, etc. " " 1.00 8.00
Chrysanthemum varieties and price on application.
Ampelopsis Vetchii, strong plants. 8.00 75.00
Trade List of Florists' Stock on application.

WOOD BROTHERS,

(Successors to I. C. WOOD & BRO.) FISHKILL, N. Y.

Verbenas Now Ready

ABSOLUTELY FREE FROM DISEASE.

Mammoth, strong, 2 1/2 in. pots. \$4.00 \$35.00
General Collection, 2 1/2 in. pots. 2.50 20.00
Mammoth Set Rooted Cuttings. 1.25 10.00
General Collection Rooted Cuttings. 1.00 8.00

Address J. G. Burrow,

FISHKILL N. Y.

3,000 (1st) Jacq. Rose plants, 4 in. pots, per 100, \$6.00.
Coleus Cuttings rooted, Verschaffeltii, Golden Bedder, Golden Verschaffeltii and Sunset, per 100, \$1.00, per 1000, \$8.00.

JOHN RECK, Bridgeport, Conn.

E. H. HUNT,
WHOLESALE FLORIST
 79 Lake Street, CHICAGO,
 (Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
 Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
WHOLESALE FLORISTS,
 27 Washington Street, CHICAGO.
 All Cut Flowers in season. Orders promptly shipped.
 Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. WIRE WORK A SPECIALTY.

C. H. FISK,
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
 116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.

WIRE DESIGNS IN STOCK.

GRESENZ & HARMS,
 (Successors to FRESE & GRESENZ.)
Wholesale Dealers in
CUT FLOWERS,
 And Florists' Supplies.

89 Wabash Ave., CHICAGO.
 Store Open: Nights 9 P. M.; Sundays 2 P. M.

CUT FLOWERS.
The Western Trade Solicited.

Write or Telegraph.
SMITH FLORAL CO.,
 77 7th Street S. - Minneapolis, Minn.

O. W. Frese,
Wholesale Cut Flowers,
 66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
 given to shipping orders

CUT FLOWERS.
 The choicest Cut Flowers, of our own growing,
 at lowest market rates, shipped C. O. D. Use A.
 F. Code when ordering by telegraph. Telephone
 connections. For prices, etc., address
J. L. DILLON, BLOOMSBURG, PA.

ORCHIDS.
 Established and Fresh Imported plants,
 mostly useful for Cut Flowers, at
 very low prices.
 Write for our Price List.
FREDERICK MAU,
 P. O. Box 322, SOUTH ORANGE, N. J.

SPECIAL OFFER FOR CASH,
TO MAKE ROOM. Each

KENTIA, Bel. and Post, 3 ft. high, 4 to 5 char-
 acter leaves..... \$3.00
 " Bel. and Post, specimens 3 1/2 feet
 high, 5 to 6 character leaves..... 5.00
 " Bel. and Post, 2 1/2 to 3 ft. high, 3 to 4
 character leaves..... 2.00
 " Bel. and Post, 2 to 2 1/2 ft. high, 3 to 4
 character leaves..... 1.50
 Aspidistra variegata, 5 to 6 leaves..... .75
 Platycodon Verticillata, fine plants, 3 and 4 in. pots, 1.50
 Cocco Weddelliana, 2 feet high..... 1.50

All the above grown cool and in the condition for
 immediate use.
 AZALEAS in best varieties, plants 15 inches in
 diameter, well set with buds.

E. W. WEIMAR, Mt. Vernon, N. Y.

Wholesale Markets.

Cut Flowers.

BOSTON, Feb. 9	
Roses, Bon Silences.....	\$3.00 @ \$4.00
" Niphetos.....	2.00 @ 3.00
" Gontiers.....	6.00 @ 7.00
" Perles, Supples.....	5.00 @ 6.00
" Mermetts, Brides.....	10.00 @ 12.00
Callas.....	1.50 @ 2.00
Valley.....	.75
Daffodils.....	4.00 @ 5.00
Freesia.....	2.00
Tulips.....	4.00 @ 5.00
Asparagus plumosus.....	50.00
Heath.....	1.00
Adiantum.....	1.50
Adiantum Farleyense.....	15.00 @ 17.00
Callas.....	8.00 @ 10.00
Hartill.....	1.00

PHILADELPHIA, Feb. 9	
Roses, Beauties.....	25.00 @ 30.00
" Bruns.....	10.00 @ 12.00
" La France, Albany.....	30.00 @ 32.00
" Jais, Mayas.....	6.00 @ 10.00
" Mermetts, Brides.....	8.00 @ 10.00
" Bennetts.....	4.00 @ 5.00
" Perles, Niphetos.....	5.00 @ 6.00
" Cusins, Hostes.....	5.00 @ 6.00
Valley.....	4.00 @ 5.00
Tulips.....	4.00 @ 5.00
Daffodils.....	4.00 @ 5.00
Carnations, long.....	1.50 @ 2.00
short.....	.75 @ 1.25
Smilax.....	1.00
Adiantums.....	1.00

NEW YORK, Feb. 9	
Roses, Perles.....	\$3.00 @ \$4.00
" Niphetos, Soups, Gontiers.....	7.00 @ 8.00
" Mermetts, Brides.....	4.00 @ 5.00
" Watteville, Cusins.....	1.00 @ 1.25
" La France, Albany.....	6.00 @ 12.00
" Bon Silens.....	1.00 @ 2.00
" Am Beauties.....	25.00 @ 30.00
" Hybrid.....	1.00 @ 1.25
" Jacis.....	35.00
Valley, Romans.....	2.00 @ 3.00
Narcissus, Paper white.....	4.00 @ 5.00
Daffodils.....	4.00 @ 5.00
Violas.....	1.00 @ 1.25
Tulips.....	4.00
Smilax.....	15.00
Adiantums.....	1.25
Callas.....	6.00 @ 8.00
Hartill.....	10.00 @ 15.00
Lilac, per bunch.....	1.00

CHICAGO, Feb. 9	
Roses, Bon Silences.....	2.00 @ 3.00
" Perles, Niphetos.....	4.00 @ 5.00
" Mermetts, Brides.....	1.00 @ 2.00
" Beauties.....	20.00 @ 30.00
" Gontiers.....	1.00 @ 2.00
" Bennetts, Woottons.....	6.00 @ 8.00
" La France.....	6.00 @ 8.00
Carnations, short.....	1.00
Carnations, long, fancy.....	1.00 @ 2.00
Violas.....	1.00 @ 1.25
Valley.....	4.00 @ 5.00
Tulips.....	4.00 @ 5.00
Roman Hyacinths, narcissus.....	1.00 @ 1.25
Smilax.....	12.00 @ 15.00
Adiantum.....	1.00 @ 1.25
Viola.....	1.00 @ 1.25
Callas.....	6.00 @ 8.00
Hartill.....	10.00 @ 15.00

WM. J. STEWART,
Cut Flowers & Florists' Supplies
WHOLESALE.

67 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & CO.
Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,
 1 Music Hall Place, BOSTON, MASS.
 Also entrance from Hamilton Place
 through Music Hall.

We keep a large supply of Fancies and Carna-
 tions always on hand. Return telegrams sent
 immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

SMILAX.
 First Class Smilax, \$2.00 per dozen; \$15.00 per
 hundred, C. O. D.
FORHALL BROS.,
MORTON GROVE, ILL.

PLANTS FOR CUT FLOWER GROWING

Roses, Carnations,
 Chrysanthemums, Ferns.

I grow all the best varieties for this purpose. Whole-
 sale lots now ready. Send for it before buying your
 stock for planting.

M. A. HUNT, Terre Haute, Ind.

THOS. YOUNG, JR.,
WHOLESALE FLORIST
 20 West 24th Street,
NEW YORK.

LILY OF THE VALLEY,
 And the Choicest ROSES for the
 fall and winter season.

W. S. ALLEN,
Wholesale Dealer in Cut Flowers

36 EAST 23rd STREET, NEW YORK.

(ESTABLISHED 1877.)

Price List sent upon application.

IV. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,

No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
 51 West 30th St., NEW YORK.

JOHN YOUNG,
WHOLESALE FLORIST
 56 WEST 30TH STREET,
NEW YORK.

A. S. Burns. J. I. Raynor.
BURNS & RAYNOR,
WHOLESALE FLORISTS,
 11 West 28th St.,
NEW YORK.

J. M. McCULLOUGH'S SONS,
 Wholesale Commission Dealers in
CUT FLOWERS.

134 & 136 Walnut Street, CINCINNATI, O.
SPECIALTIES:
ROSES, CARNATIONS AND ORCHIDS.

LaRoche & Stahl,
Florists and Commission Merchants

— OF —
CUT FLOWERS,
 1237 Chestnut Street, PHILADELPHIA.

Consignments Solicited. Special attention paid to
 shipping. Mention AMERICAN FLORIST.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
 1122 PINE STREET,
ST. LOUIS, MO.

CONSIGNMENTS OF SMILAX, CALLAS
AND ADIANTUMS WANTED.
THE WISCONSIN FLOWER EXCHANGE.
 131 Mason Street, MILWAUKEE, WIS.

Our Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FOTTLER, JR., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

MR. A. D. COWAN has withdrawn from the seed firm of A. D. Cowan & Co.

CHAS. G. WEINER and Alex L. Don will continue the business of A. D. Cowan & Co. in the same name.

MR. GEO. S. HASKELL of Rockford is now able to be out though not yet recovered from his recent severe illness.

J. C. McMILLAN & Co., seedsmen, of Atlanta, Ga. have assigned; acts practically nothing. It is not encouraging for seedsmen to assign at this season of the year.

Some More Facts and Figures.

ED. AM. FLORIST:—Your renewed request for my views on advertising, together with what figures I have compiled as the result of my experience in that department of my business, reaches me at a busy time, so I have remained at my office to-night to try and give your wishes consideration. Motive is apt to color our views and expressions in all that we say and do, and my first thought has been to question myself as to the motive that induces me to give you for publication the facts I possess and I feel happy to say I find, first, an appreciation of the benefit the free advertising it gives, with a desire to oblige my friend, your president, and second, the wish that it may lead to more sincere consideration and hearty co-operation for the best interests of the seed trade. For the last seventeen years I have been engaged in the seed business in this city, ten of them connected with the old established house of Buist, and the last seven under my own name; during that period many thousands of dollars worth of advertising has been placed under my special direction; and the more experience I have the more I find there is to be learned.

We all know that persistent, judicious advertising of meritorious merchandise has made many magnificent and princely fortunes, but I do not want to repeat any trite well known facts, but simply give you a few figures and my deductions therefrom.

With the utmost care and detail I find it extremely difficult to accurately figure the value and results of advertising; it is like weighing the perfume of the beautiful flowers which make their presence known though our eyes be blind; many facts are plain while others are concealed, and in the data I give I wish it distinctly understood that I do not regard the figures as showing all the fruits of the expenditure but only those immediately, directly and actually traceable by careful compilation. In starting my business in 1884 I aimed to do no mail trade, confining myself entirely to the wholesale business and retailing only locally in Philadelphia; we, however, issued a catalogue which we supplied with our seeds to the dealer and soon found a small mail business coming in that we could not refuse nor tell to whom to give the credit of such orders. In 1886 we spent \$494.98 with N. W. Ayer & Son on a list of agricultural and religious papers, but have no records of results; the next year we expended in same way \$1,512.90 with the same parties, and it gives me pleasure

to say here that their methods and dealings were always such as inspired the fullest confidence, and I would not think of doing any extensive newspaper advertising without their aid. This year's business was also done on faith and no separate records kept. In 1888, however, I determined to know what actual results were, so I obtained a set of ledgers, one for each state and territory in the Union, and opened an account with each post-office from which any business came.

The results were as follows:

1888 CATALOGUE, COST 10c. MAILED.			
STATE.	Number Catalogues Mailed.	Cost Including Postage.	Cash rec'd from same.
Ala.....	1,200	120.00	36.00
Ky.....	1,200	120.00	68.30
West Va.....	900	90.00	18.00
Wis.....	600	60.00	81.00
Virginia.....	1,500	150.00	135.00
Tenn.....	1,700	170.00	75.00
So Caro.....	700	70.00	25.00
Penna.....	6,000	600.00	675.00
Ohio.....	1,300	130.00	112.00
Kansas.....	1,500	150.00	51.50
Missouri.....	1,500	150.00	92.50
Miss.....	800	80.00	28.50
No Caro.....	1,000	100.00	79.30
Georgia.....	800	80.00	63.00
N Y.....	1,400	140.00	130.00
Indiana.....	600	60.00	54.00
Iowa.....	700	70.00	132.00
Illinois.....	700	70.00	132.00
Maryl'd.....	800	80.00	89.00
Dela.....	800	80.00	38.00
Neb.....	800	80.00	27.00
N J.....	2,700	270.00	150.00

Totals... 29,100 \$2,910.00 \$2,190.15
Newspaper adver. \$907.51

\$3,817.51

To many I suppose this will look like a very small amount of business, and in comparison with the old established mail houses I know it is, but neighbor I am giving facts for general good and will only say sit your own expenses in this line and directly traceable receipts and see what are your real results. Personally I regard the advertising of any good reliable house having good reliable goods to sell and expecting to continue in business, as an investment that is almost as permanent as the continuance of the house itself, and that no one should engage in expenditure in that line beyond their ability to capitalize their business; I trust no one in the seed business ever spends money in advertising that can only be paid by a successful issue of the same, and must otherwise be taken to wrong side of profit and loss account by the newspapers or agents.

I felt that this showing of 1888 was a good beginning in the mail line, and having had a good year concluded to enlarge on it in 1889.

The results were as follows:

1889 CATALOGUE, COST 5c. MAILED.			
STATE.	Number Catalogues Mailed.	Cost Including Postage.	Cash rec'd from same.
Ala.....	2,000	100.00	35.45
Arizona.....	91	4.55	27.51
Ark.....	1,000	50.00	45.34
Cal.....	1,600	80.00	67.21
Colo.....	500	25.00	18.22
Conn.....	2,000	100.00	50.62
Dela.....	800	40.00	27.50
Dakota.....	1,200	60.00	22.97
Florida.....	1,200	60.00	94.75
Georgia.....	2,600	130.00	81.43
Illinois.....	6,200	310.00	100.25
Iowa.....	4,200	210.00	68.67
Idaho.....	300	15.00	8.21
Ind'n Ty.....	60	3.00	1.21

Indiana.....	4,700	235.00	133.43
Ky.....	3,000	150.00	68.13
Kansas.....	3,100	155.00	73.40
La.....	1,000	50.00	78.21
Mont.....	155	7.75	7.45
Mass.....	2,400	120.00	39.53
Maine.....	2,600	130.00	65.30
Miss.....	1,800	90.00	63.22
Maryl'd.....	1,300	65.00	60.78
Missouri.....	4,400	220.00	62.09
Mich.....	4,500	225.00	106.47
Minn.....	2,000	100.00	28.12
No Caro.....	2,500	125.00	88.73
Nevada.....	150	7.50	10.65
N Mex.....	400	20.00	40.25
N H.....	1,500	75.00	35.58
N Y.....	14,000	700.00	170.17
Neb.....	2,100	105.00	44.02
N J.....	2,500	125.00	71.20
Ohio.....	7,500	375.00	144.77
Oregon.....	500	25.00	19.40
Penna.....	12,000	600.00	502.74
R I.....	600	30.00	18.58
So Caro.....	1,700	85.00	37.03
Tenn.....	2,000	100.00	75.16
Texas.....	2,500	125.00	146.53
Utah.....	900	45.00	49.48
Vermont.....	1,600	80.00	30.77
Virginia.....	1,800	90.00	98.37
W Va.....	1,300	65.00	34.72
Wyo.....	150	7.50	11.65
Wash.....	350	17.50	11.42
Sundry.....	8,000	400.00	4.81

118,756 \$5,937.80 \$3,071.50
Newspaper adver. \$1,100.00

\$7,037.80

This I did not regard as satisfactory and decided in 1890 with increased wholesale business not to make any effort for the mail trade and did no advertising, mailing only 6,000 catalogues to actual mail customers of the year before at a cost of \$300, receiving orders for \$1,203.24; being the first time in 17 years I could ever trace a direct profit in that department.

We do not regard this advertising as money lost, for we know that much of our success in other departments was due to it, and even now in 1891 we are receiving orders from the 1888 edition of seed manual.

The mailing of catalogues free to all applicants from promiscuous newspaper advertising we believe to be very unprofitable; our system enabled us to trace this up and we give two samples.

Of 25 applications from Florida four ordered \$3.40 in all.

Of 28 applications from Alabama one ordered 10c in all.

Most of those who will be interested in this article will know this was not due to the catalogue being poor or unwisely forced. I enclose a postal before me at this time touching this point, and also showing the permanence of advertising.

"I have your catalogue of '88 before me. Am so well pleased with it on account partly of its instructions to young beginners concluded to get it before ordering my seeds. Sent at once and oblige,
WM. H. MILLER.

Mathews C. House, Va., Jan. 22, 1891."
I put more faith to-day in originality in advertising than any other feature, those who follow the old beaten track can not hope to strike and rivet attention, the field for imitators is a narrow one.

Z. DE FOREST ELY.
Philadelphia, Jan. 30, '91.

SHEBOYGAN, Wis.—Otto Schucht, florist, should be added to the directory list. Miss A. Schucht should be F. St. instead of F.

Z. DE FOREST ELY & Co.,

WHOLESALE

Seed Merchants and Growers.

IMPORTERS OF

Bulbs for Florists.

Our specialty is the JOBBING TRADE. Write for prices, which are always favorable, we can help you increase your trade.

1301 and 1303 Market Street,

PHILADELPHIA, PA.

EST OF ALL BARNARD'S SEEDS. TRUE TO NAME. PURE TO PLEASE.
BOOK MAILED FREE. TRY US ONCE. END AGAIN.
 Complete assortment of Flower, Fruit and Farm Seeds, Garden Tools, Etc. Send for illustrated catalogue.
W. W. BARNARD & CO., (Successors to Hiram Shibley & Co.) 6 & 8 N. Clark St., Chicago.

USE FERRY'S SEEDS
BECAUSE THEY ARE THE BEST.
 D. M. FERRY & Co's Illustrated, Descriptive and Priced **SEED ANNUAL** For 1891 will be mailed **FREE** to all applicants, and to last season's customers. It is better than ever. Every person using Garden, Flower or Field Seeds, should send for it. Address **D. M. FERRY & CO., DETROIT, MICH.**
 Largest Seedsmen in the world.

TRY DREER'S GARDEN SEEDS
 Plants, Bulbs, and Requisites. "The" are the best at the lowest prices. **TRADE LIST** issued quarterly, mailed free to the trade only.
HENRY A. DREER, Philadelphia
 Mention American Florist.

G. J. MOFFATT, Manufacturer of SEED BAGS ENVELOPES OF ALL KINDS. Printing a Specialty. NEW HAVEN, CONN.
 Samples and prices on application. When writing for prices, please state sizes and quantity wanted.

FLOWER SEED. CHOICEST STRAINS FOR FLORISTS.
 1891 trade list now ready, and mailed free on application.

AUGUST RÖLKER & SONS, 136 West 24th Street, NEW YORK, STATION E.

CANNAS.
 Ehemann and LaTour de Grand Ronde \$ 5.00
 Emil Leclair, Nouton and Adolph Weick 12.00
 Tuberoses, Pearl per 1000 \$10.00
 Caudium Excelsiorum, 1st size 7.10
 2nd size 5.00
 Can use in exchange, 1000 Carnations, Rooted Cuttings.

E. S. NIXON & SON, Chattanooga, Tenn.

GRAPES FAY Currant
 New Grapes—Elder, Rockwood, Eaton, and all others new & old. Best and Cheapest. Small Fruit. Catalogue free. **GEO. S. JOSSelyn, Jr.,** Danville, N. Y.

NOTICE.

I desire to state to my friends that I have no further connection with the firm of A. D. COWAN & Co., Seedsmen, 114 Chambers Street, New York City.

Communications will reach me addressed care of THOS W. WEATHERS'S SONS, 48 Marion Street, New York.

A. D. COWAN.

THE BEST OF ALL CAULIFLOWERS!
 Is the sort now sent out for the first time, the perfection. The snowball, glitced and Extra early Erfurt are all excellent sorts, but an extensive market gardener, who has raised these and all other sorts, believes that within three years the most enterprising market gardeners will have dropped these and be raising perfection. Trial package, 5c; per doz. \$1. Seed catalogue **FREE** to every one. **JAMES J. H. GREGORY & SON, Marblehead, Mass.**

THE NEW TOMATO!

From Canada ought to be extra early and as such it isent out. The reports of the experimental stations speak highly of it. and numbers testify to its earliness, productiveness, large size, roundness, rich color and freedom from rot. Per package, 15c; five for 60c. You will find it only in my Seed Catalogue, which will be sent **FREE** to anybody.
J. J. H. GREGORY & SON, Marblehead, Mass.

TRUE DANVERS ONION SEED.

My seed farms extend into Danvers, and I frequently buy of the best onion raisers there hundreds of bushels of their handpicked onions to plant to grow seed from, sometimes paying as high as five dollars a barrel. I offer such seed, all this year's growth and of my own raising, at \$3.00 pound with a discount on large quantities. Much of the onion seed sold is either too flat or too round for true Danvers. Choice Danvers cannot seed \$1.00 per pound. Seed Catalogue sent **FREE** to every one.
JAMES J. H. GREGORY & SON, Marblehead, Mass.

ONION SEED. WHITE SPANISH (sulphur yellow), STRAW-COLORED and STRASSBURGH.
 All of my own growth from selected bulb. Prices on application.

HENRY METTE, Seed Grower and Merchant, Established 1875, QUEBLINBURG, GERMANY.

PALMS and DRACAENAS.
 Largest stock in the West. Over fifty varieties of PALMS at 5c. to \$10.00 each.
 CYCAS REVOLUTA, 50 cts. to \$15.00 each.
 DRACAENA INDIVISA, AUSTRALIS and TERMINALIS, 5 cts. to 15 cts. each.
 CACTUS, ALORS, AGAVES and YUCCAS.
 Send for price list.

W. J. HESSER, Plattsburgh, Neb.

PLANTS AND BULBS.

Per 50 Per 100
 CANNAS, fine bulbs, \$3.50 \$6.00
 PRIMULAS, nice plants, 4.00 7.00
 SMILAX, good, 5.00 4.00
 PANSIES, from cold frame, 1.25 2.00

JOS. H. CUNNINGHAM, Manager, DELAWARE, OHIO.

SIEBRECHT & WADLEY, Rose Hill Nurseries, NEW ROCHELLE, N. Y.
New and Rare Plants
Hardy Plants.
ORCHIDS, PALMS, FERNS.
CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

CHRYSANTEMUMS.

—All Prize Takers of 1890.—

I have over 250 varieties of the very best Chrysanthemums exhibited last year, and am now prepared to furnish plants at moderate prices. Will send 100 strong plants, one hundred different kinds all good ones, my selection, for \$4, or will send 200, each different, and containing all the most valuable and popular kinds of the past season, for \$8.00.

All Plants Guaranteed to be in First-Class Condition. Send for descriptive circular giving full descriptions and prices to

O. P. BASSETT, HINSDALE, ILLINOIS.

CHRYSANTEMUMS.

Waterer's Novelties for 1891.

ELDORADO, MARY WATERER, KATE RAMBO, M. P. MILLS, MRS. H. A. PENNOCK (yellow violet rose), **MRS. JOHN WESTCOTT.**

Also a large stock of **MISS MINNIE WANAMAKER**, the best white in cultivation.

Price list on application to

H. WATERER,

109 South 7th Street, PHILADELPHIA, PA.

GOLDEN BEAUTY TO THE FRONT.
 It was never exhibited, but has stood the more practical test, for no early yellow Chrysanthemum gave better satisfaction to seller and buyer than the above. Such was our experience, and also of all who handled it. What they say:
 "We handled no early yellow that sold better or gave better satisfaction to the buyer."—James Cardigan, of Pennock, Ross, 1514 Chestnut street, Philadelphia.

"You can get nothing better than that."—Wm. Voght, Jr. and Co., Cooper Sts., Camden, N. J.
 It was decreed in these columns last year, and we strive to tell its own story. Suffice it to say that our claims for it have been amply sustained, and that it combines all the essentials of a first class market variety for potting and cutting. Ready in quantity March, April and May, 12 for \$1.00 for \$8. You can not afford to get left on this offer. Orders booked now will be in rotation as far as plants are ready, by express or free by mail.

THE NEW DOUBLE WHITE DAISY SNOWFLAKE.
 One of the best of the new for winter flowers. Will grow and bloom all winter in a cold frame and it will endure cold nights will need no better quarters. Gives splendid returns. It does not seed, and can only be increased by division. Flowers pure white, very double, and beautifully quilled. As large as a 50c. piece. Ready now, 12 for \$1.00 for \$8. Sample plant and bloom free by mail receipt of 10 cents.

See for special offers in another column.

J. C. GIBSON, Woodbury, N. J.

CHRYSANTEMUMS.

HOLLIS' SEEDLINGS OF 1890.

Nine distinct and choice varieties. Prospective prize winners of 1891 need them. Best quality and lowest price.

35 to 50 cents each; \$3.00 for the set. Send for descriptive list.

GEORGE HOLLIS, South Weymouth, Mass.

CHRYSANTEMUMS.

250 varieties, new and old, fine plants in 2½-in. pots. Send for descriptive price list.
FRANK B. SMITH, Box 1081, Danville, Ill.

Orange, N. J.

It is reported that the florist business of Richard Purdue of East Orange is about to be rented to his two sons George and Richard, Jr.

Mr. Robert McArthur, who has leased the place conducted by the late H. J. McGall, is doing a splendid trade. He retains the services of Mr. Peter Popkins who was foreman for Mr. McGall. All the stock grown is retailed.

Mr. Atkins of West Orange has given up growing roots for the New York market. Mr. T. H. Spaulding says he never had so many orders for young plants of chrysanthemums before at this season and predicts that there will be more grown this year than ever before.

Mr. Mau has his place literally packed with orchids. Every possible bit of space is full.

The florists of Orange are thinking of organizing a Florists' Club.

Mr. Gus Cordier still maintains his reputation of being the best violet grower in the Oranges. He has held first honors for the past seven years.

Out of a batch of 30,000 cuttings of the Lizzie McGowan carnation put in the bench by John McGowan, only three cuttings were lost. A pretty good strike!

C. M. J.

Zirngiebel's Improved Strains

OF

WHITE ASTERS, PERPETUAL WHITE STOCKS, GIANT MARKET and FANCY PANIES; NEW HYBRID CARNATIONS, a cross between the Perpetual and Marguerites, and greatly superior for florists' use, in separate colors, pure yellow, white, pink and red shades.

Any of the above seeds in trade packets at \$1.00 each.

Also the choice NEW CONTINENTAL CARNATIONS for 1891. Miss Moore, Mme. Gobet, Roi des Violettes, Bouton, d'Or, Grande Morel, to be sent out March next.

Send for Descriptive List of all to

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.

J. A. DE VEER,
18 Burling Slip, - NEW YORK,
Importer and Dealer in

BULBS, SEEDS, PLANTS
and Florists' Supplies.

Agent for Foreign Houses. Catalogues free to the trade.

TUBEROUS BEGONIAS.

We still have some dry tubers of them They bloomed last summer and were fine; none have been picked out, some flowers measured 5 inches.
\$3.00 per 100. Some double ones, 10 cents.
Fine bulbs of CALADIUM ESCULENTUM, 10 cts. each.
Smaller ones at 3.5 and 8 cents.
ROOTED CUTTINGS VERBENAS, \$1.00 per 100 year selection of colors; best white, pink, scarlet, crimson, etc.

BRAUER & RICHTER, McConnellsville, O.

Eucharis Amazonica

400 STRONG, HEALTHY BULBS,
\$8.00 per hundred.

ADOLPH STAHL & CO.,
JOHNSTOWN, PA.

A BEAUTIFUL NATIVE CRINUM.

Crinum Americanum, white flowering, bulbs 2 to 2½ inch in diameter, \$3.00 per 100; \$25.00 per 1000.
Crinum Nassau, No. 1, white striped carmine, \$3.00 per 100; \$25.00 per 1000.
" " " No. 2, larger flower, \$10 per 100.
" " " No. 2, bulbs 2 to 3 in. diam., 50c each.
Cosmos, white, seed, 5 lbs. per oz. 40c; per lb. \$4.
Antigonon lept., seed, 15 lbs. per oz. 50c; per lb. \$6.
Antigonon lept., 1 year, strong, field grown, the each.
Amarilli ceph. rosea, \$1.50 per 100; \$15.00 per 1000.

THE BROOKS SISTERS, Sorrento, Fla.

ROOTED CUTTINGS.

— Send for Lists. The prices and quality are sure to please. —

CARNATION NOVELTIES: Lizzie McGowan, Louise Porsch, Golden Gate, J. Angelus, Dorothy, Nellie Bly, Snow Bird, White Wings, May Flower, Orange Blossom, Beauty of Oxford, Emily Louise Taplin, and others are described in my list. Also all the standard varieties.

COLEUS—A large stock of VERSCHAFFELTII and GOLDEN BEDDER and twenty-two fancy sorts, all good bedders, at 75 cts. per 100; \$6.00 per 1000.

CANNA EHEMANNI, strong roots, at \$8.00 per 100. **EMILE LECLAIRE**, \$10.00 per 100; and the **DWARF FRENCH** at \$12.50 per 100. All in extra good shape.

SMILAX for delivery in March, \$6.00 per 1000 for plants once reset. Samples 10 cts.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

LIZZIE McGOWAN,

* * THE QUEEN OF WHITE CARNATIONS! * *

Will be ready for distribution February 10th, '91. Price, \$12 per 100; \$100 per 1000, for strong well rooted plants from cutting bench. Plants well established in small pots, \$3 per dozen.

Send for price and descriptive list of this and other sorts.

ADDRESS

H. E. CHITTY, PATERSON, N. J.

Rooted Cuttings.

NOW READY. UNSURPASSED IN QUALITY.

GOLDEN GATE, Grandest New Pure Yellow.
ROOTED CUTTINGS, \$1.50 per dozen; \$12.00 per 100; \$100.00 per 1000.

WM. F. DREER, Magnificent, Fringed Rose Pink.
ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

J. R. FREEMAN, Fragrant, Crimson Scarlet.
ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

CONSTANCY, Glowing, Bright Scarlet.
ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

FRED CREIGHTON, Delicate, Soft Pink.
ROOTED CUTTINGS, 60 cents per dozen; \$4.00 per 100; \$35.00 per 1000.

For well established plants from small pots, see **ILLUSTRATED CATALOGUE**—free.

ROOTED CUTTINGS, at prices per dozen, free by mail.

CHAS. T. STARR, Avondale, Chester Co., Pa.



LIZZIE McGOWAN THE NEW WHITE

CARNATION. ROOTED CUTTINGS, \$12 per 100, or \$100 per 1000.

LOUISE PORSCHE FINE YELLOW

CARNATION. Better grower than Buttercup; \$7 per 100; \$50 per 1000.

Both ready for delivery Feb. 10, 1891. 50c at 1000 rate, 50c at 100 rate.

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Is the best STRIPED CARNATION ever produced; it is a strong grower, free bloomer and very fragrant; it grows and flowers well outside and forces good inside.

\$ 2.00 per dozen.
12.00 per hundred.
100.00 per thousand.

We deliver only well Rooted
Cuttings which have been once
transplanted.

Ready for Delivery March 1st, 1891.

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ROOTED CUTTINGS OF CARNATIONS.

Standard and Fancy varieties, ready January 1st. Stock healthy, cuttings rooted cool. A large stock of NEW WHITE CARNATION L. L. Lamborn. A liberal discount on large lots for later delivery. Send for wholesale price list.

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CARNATIONS

HECTOR,

a brilliant, dazzling scarlet, very large flower, free and continuous bloomer, plants strong and with robust constitution. Have not seen its equal. No grower should be without it.

MRS. FISHER, the peerless white, and **FERDINAND MANGO**, the leading crimson.

Send for Catalogue containing general list of Carnations and Chrysanthemums.

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Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

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Rooted Cuttings of Carnations

of all the Standard Varieties ready Dec. 1st.

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JOS. RENARD, Unionville, Chester Co., Pa.
Mention American Florist.

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ROOTED CUTTINGS

of New and old varieties at the lowest price possible to secure good stock from healthy plants. Seventy-five thousand will be ready by Feb. 1st. Send for catalogue or price list.

SEND ORDER EARLY.
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Carnation Cuttings.

Boxed off and well established. Send for Price List.

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NOW READY AT 1 DAY'S NOTICE.

20,000 Vines (variegated trailing) 1st size strong gold grown, \$1 per 100; 2nd size from 2 1/2-inch \$2 per 100; good strong plants from date, \$1.50 per 100; rooted cuttings, early fall struck, \$1 per 100. 1000 Gem Feverfew, the best for potting or cutting, strong plants, 5-inch, \$1 per 100; from date, \$1.50 per 100; rooted cuttings, \$1 per 100. 3000 Golden Marguerites (Anthemion coronata), strong, 2 1/2-inch, \$1 per 100; date, \$1.50 per 100; rooted cuttings, \$1 per 100. Heliotrope, Violet Queen, the best of all, White Lady and Jersey Blue, date \$1.50 per 100, \$2 per 100; rooted cuttings \$1 per 100. 1000 Pansies, Mikado, Dreer's White and light colors, \$1 per 100. Gibson's selected scented Hybrid Pansies, \$1.50 per 100. 1000 Hardy Snow Pinks, strong, date \$2 per 100. 100 Phlox Nana compacta and Star of Quevedinburg, finest strains, will soon bloom, date \$1.50 per 100. 300 Begonia Saundersii, 4-inch, in bloom, \$5 per 100. 300 Bouvardias, double white, 4-inch, \$10 per 100. Can be brought on for Easter. Many Verbenas by the 100 and 1000, complete set of 15 beautiful named varieties all color and many of them sweetly scented, stock perfectly healthy, ready February, March and April, strong, from date, \$1.50 per 100, \$2 per 100; rooted cuttings, \$1 per 100. 80 Mums by the 100 and 1000. None but the best new and standard sorts, all colors, strong, late, Ada Spaulding, Minnie Wansmaker, Bostomly, Ivory, Price, Cannizz, Mrs. Bellod, Oakley, Ruby, Snow Ball, Parades, Grandiflora, Harn K. Burpee, 100 others, the very cream of all, complete set to 20 varieties, all shades, the range of the season, 3-inch or choice, \$5 per 100; extra good strong plants from the run of the kind, your choice, \$5 per 100. Coleus Verschaffeltii, Golden Verschaffeltii, Golden Bedder, Midnight, Lottie, green, 5-inch, 100 varieties, rooted, \$30 per 100, \$2 per 100. Mixed Fuchsias, rooted, \$1 per 100, \$5 per 100. Azaranta White cap, trailing Lobelia, 50c per 100. Rooted cuttings and plants from date free by mail, if preferred. Satisfaction guaranteed, see other special offers.

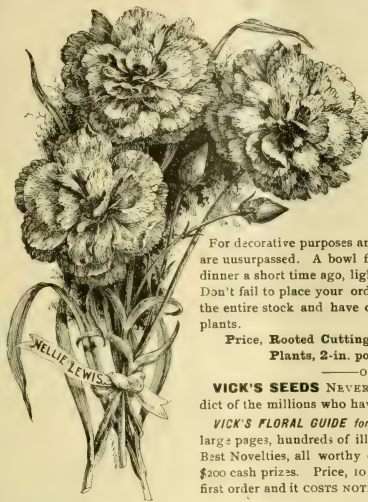
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For decorative purposes and corsage bouquets, they are unsurpassed. A bowl filled with them used at a dinner a short time ago, lighted up the entire table. Don't fail to place your order at once, as we control the entire stock and have only a limited number of plants.

Price, Rooted Cuttings, per 100, \$10.00.
Plants, 2-in. pots, per 100, \$2.00.

VICK'S SEEDS NEVER DISAPPOINT, is the verdict of the millions who have planted them.

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Ready Now. LARGEST STOCK IN THE WEST. Ready Now.

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100 ROOTED CUTTINGS (OUR SELECTION) IN 10 VARIETIES, BY MAIL, \$1.50.

—Special Prices on Large Lots.—

Send for our Price List of **CHRYSAETHUMS, LITTLE GEM FEVERFEW and BEGONIAS.** HEADQUARTERS FOR CUT FLOWERS and FLORISTS' SUPPLIES.

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FRED GREIGHTON.

ROOTED CUTTINGS of this Superb Pink Carnation, \$1.00 per hundred; \$20.00 per thousand. From the original stock, which has not been forced or in any way made to produce an extra quantity of **CHEAP** Cuttings at the expense of the future well doing of the same.

To give all a chance to see what kind of flowers this stock produces, I will send a few florets, free of charge, to any in the trade who apply to me by letter.

GEORGE GREIGHTON, NEW HAMBURGH, N. Y.

Every Florist! Every Nurseryman! Every Seedsmen!

SHOULD HAVE OUR TRADE **DIRECTORY.**

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Messrs. P. R. Quinlan & Co. have added the past year the following houses: One 125x10, cool house; one 125x12, cool house; one 125x8, for violets; one 125x8, for propagating; two 125x20, for roses. They have also three houses 125x20 for roses, one being planted entirely with Papa Gontier. Perles, Brides, LaFrance, Mermets and Niphetos are the varieties mostly grown. There are thirteen houses 85x16, devoted to palms, stove plants, carnations, etc., making a very fine plant to carry on their extensive trade.

L. E. Marquisse with the past year one house 50x18, one 50x10, one 20x20, one 108x18 and propagating house 37x6. Also potting shed 37x14, with cellar underneath, and has put in a Furman steam boiler of large size. He will build this year one show house 52x12 and one rose house 163x14. His specialties are roses, violets and carnations.

A. Burt has built one carnation house 165x12 and remodeled one 175x12, and will build immediately two 165x12. His houses consist of the following: One 255x26, three 175x12, one 250x14, one 150x30, two 170x20, two 165x20, one 165x12, one 180x25. Smilax, roses and callas are the principal product, although a general assortment of flowers for his retail trade is grown. One house 175x12 is devoted entirely to callas which are planted out.

Henry Morris, the Elmwood Park florist, started last year and has a very nice compact place. His greenhouses are as follows: Three 80x10 and one 50x10, and he will build this spring one 90x20 and one 90x10.

Mrs. Hayden, daughter of the pioneer florist John Day, has added one rose house 100x18.

The system of heating is divided, Messrs. Quinlan and Marquisse using steam, and Messrs. Burt, Morris and Hayden hot water.

There are other florists whose places I have not been able to visit at this writing, but know they are progressing like the rest. H. Y.

TO THE TRADE.

We have a Large and Good Stock of

Dracaena Indivisa & *Latania Borbonica*.

Also a general assortment of spring stock.

Wholesale Catalogue issued February 15th, sent free on application, or write us and we will quote price. P. O. Address

ASTORIA NURSERIES,

ASTORIA, Long Island City, N. Y.

Write to us before buying elsewhere.



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EVERGREEN CUT FERNS

Especially for Florists' Use.

\$1.50 per 1,000; 5,000 for \$6.25; 10,000 for \$10.00.

Special attention paid to supplying the trade all winter. Sample lot of 250 ferns sent in improved mailing box, postpaid, to any part of the U. S. for 75 cents.

SPHAGNUM MOSS (Dry).

Long clean fibre, sack or barrel \$1.00; six barrels \$5.00; twenty barrels \$15.00.

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COMPLIMENTARY ORCHID EXHIBITION.

Every one interested in Horticulture is cordially invited to attend an Exhibition of Orchids at the United States Nurseries, Short Hills, N. J., February 9 to 14 inclusive.

Respectfully,

PITCHER & MANDA.



* CARNATIONS. *

GRACE WILDER, QUEENS SCARLET or PORTIA, PEEBLES WHITE, HINZE'S WHITE, SNOWDON, Rooted Cuttings for Feb. and March delivery. \$1.50 per 100; \$12.00 per 1000. Plants \$4.00 per 100, 10 other new and old leading varieties.

VERBENAS—Stock plants or rooted cuttings. Finest Verbena and Pansy Seed.

Best strains Flower and Vegetable Seeds. Catalogue free.

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GOLDEN BEDDER, VERSCHAFFELTII, HERO, FIREBRAND, J GOODE, YEDDO, KIRKPATRICK, GLORY OF AUTUMN, CHICAGO BEDDER,

75 cents per 100; \$6.00 per 1000.

CASH WITH ORDER.

STRONG ROOTED CUTTINGS.

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COLEUS.

ROOTED CUTTINGS.

HEALTHY and VIGOROUS.

Eighteen varieties, including Golden Bedder, Golden Verschaefeltii, Crimson Verschaefeltii, Firebrand, Peter Henderson, Glory of Autumn, Sunray, etc.

ROOTED SAMPLES OF THE SET MAILED FOR 20 CENTS.

Shipment any time. Send for Trade List. Fine, healthy stock, delivery February and later.

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ALEX. McBRIDE, Alplaus, New York.



150 Acres.

Large Assortment.

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TRADE LIST ON APPLICATION.

SELOVER & ATWOOD,

GENEVA, N. Y.

ROOTED CUTTINGS.

Now Ready.

Anthemum coronaria 8 p. Abutilon in var.: *Gypsophila*, *Convolvulus Maurandicus*, *Sieronia begonia gracilis*; *Chaetostemma hispidum*; *Fuchsia*; *Morren-bryanthemum cordifolium* var.; *Aspidistra elatior*; *Begonia Sandersoni* & *Brunelli* lvs. \$1.50 per 100. *Geranium* Muse, *Salleri*; *Paris Daisy*; *Othonea crassifolia*; *Heliotrope*; *German Ivy*; *Cuphea*; *Ageratum*, blue and white; *Gnaphalium lanatum*; *Lantana*; *Double Sweet Alyssum*; *Sempervivum*; *Stevia serrata* nana; *Pilea muscosa*; *Scaxifraga Sarmatensis*. \$1.00 per 100. *Verbenas*, Vesta, finest white, \$1.00 per 100 (General Collection, \$1 per 100. \$1.50 per 100. *Roses*, *Hermosa* 2 in. pots, \$3.75 per 100. 4 in. pots \$5.00 per 100. *Marie Guillot* 2 in. pots, 4.00 per 100. **A. GIDDINGS,** Danville, Ill.

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For Sale, packed in bales 200 to 250 lbs. No Charge for delivering to depots.

PRICE:

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For Wild Smilax,

PALMS and PALMETTOS.

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3,000,000 HARDY CUT FERNS

MOSS, Sphagnum and Green Sheet.

BOUQUET GREEN & FESTOONING

of all kinds always on hand. In fact anything that grows wild.

HARTFORD & NICHOLS,

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Mention American Florist.

MY NEW SPECIAL OFFER OF

EXTRA CHOICE FLOWER SEEDS

is now published and may be had on application.

FRED. ROEMER,

SEED GROWER

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THE CHEAPEST AND BEST OF ALL.

FIR-TREE OIL INSECTICIDE soluble.

FOR PLANTS.—To make a solution for washing or cleansing purposes.—Half-a-Pint of Fir-Tree Oil to ten gallons of water.

For Green and Black Fly, Thrip, American Blight, Woolly Aphis, etc.—Half-a-pint of the Fir-Tree Oil to two or four gallons of water, or two or three tablespoonsful to the pint.

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For Mildew and Blight on Fruit or Foliage.—Half-a-Pint of the Fir-Tree Oil to a gallon of water, or six tablespoonsful to the pint.

Used with warm water it is quicker in its action than when cold is used.

Soft or rain water is necessary, and Applied in Wood, Tin or Pot Vessels.—Galvanized Iron Vessels must not be used.

FOR ANIMALS.—For Skin Diseases and Killing Vermin mix one part of Fir-Tree Oil with three parts of warm water and wet the affected part each day. In some cases it may be used stronger. For Ring-worm apply full strength with a brush each day.

FOR BIRDS INFECTED WITH PARASITES.—Put a tablespoonful of Fir-Tree Oil in one quart of warm water and dip the bird in it, taking care that its eyes are protected, hold the bird in one hand for one minute, then dip into clean tepid water; this may be repeated. If necessary a weak solution may be used with a spray producer.

Sold in Bottles and Tins.
Manufacturer—E. GRIFFITHS HUGHES,
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—SOLD BY ALL SEEDSMEN.

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LITTLE'S ANTIPEST

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

—BY THE—

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis and Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap.** No fruit grower or florist should be without it. Send for circulars and price list.

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MUSHROOM SPAWN
GENUINE MELLIN'S

10 lbs 25 lbs 50 lbs 100 lbs

\$1.20 \$2.75 \$5.00 \$8.00

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PHILADELPHIA, PA.

MISSOURI NURSERY CO., Louisiana, Mo.
Salesmen wanted; special aids; magnificent outfit free.
STARK NURSERIES. Stark Bros. Nursery
Founded 1830. Oldest in the West. Largest in the
World. Best of everything. Nearly 60 salesmen sell our
stock in almost every State and Territory; annual sales
exceeds that of any other Nursery. We sell direct through
our own salesmen, without the aid of any middlemen or ad-
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NOT TREES Last year's bearing
whole root trees, or like plum, prune and apricot trees
on Malvaceae, the best plum stock grown. Ideal for
New & Old Fruits (by mail)—ornamentals, root grafts,
everything. No larger stock in U.S. No better. No cheaper.

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READY IN FEBRUARY.

History of the Chrysanthemum;
Classification and Care.

By **JAMES MORTON.**

An excellent and thorough
book; especially adapted to the
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PRICE, Cloth, \$1.00; Paper, 60 Cents.

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THE WHILLDIN POTTERY COMPANY,

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AGENT FOR NEW ENGLAND STATES:

M. J. McCARTHY, 27 & 29 Olis Street, Somerville, Mass.



Bag, 100 lbs., \$3.50.

PURE * NATURAL * SHEEP * MANURE.

The richest and most nutritious food for plants, seeds, etc., used in the pulverized or liquid form the results are marvelous. In the culture of **MUSHROOMS** it can not be equaled. Hundreds of testimonials from well known growers.

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Largest and
Most Complete
Stock in the
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Evergreens, ROSES, Shrubs, Grapes,
Hardy Plants, Pæonies, Small Fruits.

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Mount Hope Nurseries, ROCHESTER, N. Y.

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Catalogue, con-
taining important
information for
planters—
Also wholesale list
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FREE.*



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Wormy Fruit and Leaf Blight of Apples, Pears, Cherries, Grapes and Potato Rot, Plum Curculion presented by using **EXCELSIOR SPRAYING**

PERFECT FRUIT ALWAYS SELLS AT GOOD PRICES. Catalogue showing all injurious insects to Fruits mailed free. Large stock of Fruit Trees, Vines, and Berry Plants at Bottom Prices. Address **WM. S. TAYLOR, Quincy, Ill.**

Cleveland.

A. Schmidt has given up his floral store on Euclid avenue.

It is reported that W. J. Leitch, formerly of Gooding & Leitch, has taken into himself a partner, a Miss Martin and himself having formed a co-partnership for life. Congratulations are in order.

Gasser is showing some fine lilacs and carnations and bulbous stock just now.

Harry Jaynes is growing only for the wholesale trade and exhibits some pretty good tulips and hyacinths, also Lily of the valley, the latter carrying from ten to fifteen good sized bells. He appreciates Tidal Wave carnation and thinks it profitable.

Mrs. E. G. Campbell has been doing some of the largest decorations for the leading social events. In some respects her work is original as she supplements plant decorations with handsome silk draperies, using handsome wood pedestals as well as the iron ones recommended by Mr. Harris. A specimen arca or latania placed on such a pedestal with a handsome yellow silk drapery thrown over the pot and draped prettily, with perhaps long stemmed yellow tulips filled in as though growing, and of the same shade as the silk, makes a rich and handsome decoration. Vary the color of silk and flowers and you can suit the character of any room.

Laurel wreathing has lately grown very popular for large ball room decorations.

Glazing.

Mr. Wm. Falconer's notes from Canada in a recent issue were very interesting reading. I am always interested when somebody has something to say in regard to butting the glass on greenhouses instead of lapping it. I have used the method for years and am convinced that the joints do not leak if butted closely.

My method of glazing tallies with that of Mr. Dunlop, only that instead of no putty I used thick paint into which dry sand was strewn. But I found it very hard work to get in a new pane of glass in place of a broken one. To lay them on loose is objectionable as the glass is not of even thickness, and while the battens will hold the thicker glass very tight the thinner one is likely to rattle in the wind. To overcome the difficulty I now use the following method: The glass is laid in exactly the manner as described by Mr. F. After the battens are screwed down I take sheet wadding and tear it into narrow strips, this is then, with a thin bladed table knife, stuffed in between glass and battens, and can be made so tight that not even tobacco smoke will go through.

CHAS. EVERDING.

Branford, Conn.

ESTABLISHED 1866.
Floral Wire Designs.
 Manufactured by
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 Mention American Florist.

**I TAKE ORDERS FOR
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Diagram Showing how perfect drainage and ventilation is secured.



Parties who have used this pot say that hereafter they will use no other.

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—AND—

JARDINIERS IN GREAT VARIETY.



NOTE.—Although forced to play a minor part in the Prize Pantomime, we nevertheless produce the best STANDARD POT in the country, and members of the S. A. F. soon found that to get such they must send their orders to

A. H. HEWS & CO., N. CAMBRIDGE, MASS.

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THE STRONGEST POTS MADE.

We can not be Undersold.

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Hilfinger Bros. Pottery,
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 Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,** Sole Mfg and Owners of all the Sphincter Grip Armored Hose Patents, 49 Warren Street, New York.

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These pots are all Standard sizes and shapes, the same that carried out of Boston the ONLY

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It will be to your advantage to send for prices before purchasing elsewhere. For prices before they will use no other.

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Sizes.	Per 100	Per 1000	
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2½-in.	.50	4.00	
3-in.	.60	5.00	
3½-in.	.80	7.00	
4-in.	.90	8.00	
5 in.	1.50	14.00	
6 in.	2.20	20.00	

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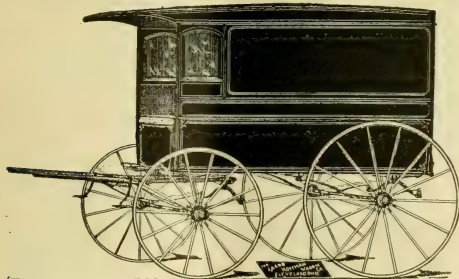


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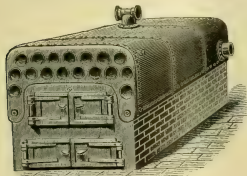
Cleveland, O.

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Capacity from 350 to 10,000 feet of four-inch pipe.
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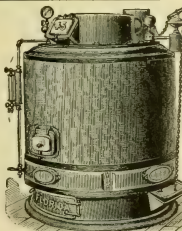
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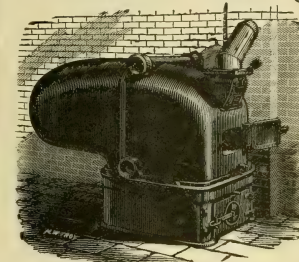
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A TRUSS of flowers of a seedling geranium raised by Mr. P. Hagerty, Wilmington, Del., has been sent us by that gentleman. The flowers are single, of good size, light pink flushed with a darker shade of the same color. The leaves which accompanied the truss of bloom are small with very distinct zone. Mr. H. writes that the plant is of good habit, dwarf and free. We do not know of a geranium having flowers of exactly the same coloring, but the value of geranium depends so entirely upon its qualities when planted out that it would be folly to express an opinion as to its usefulness. That will have to be determined by actual trial as a bedder or as a market plant.



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Vol. VI.

CHICAGO AND NEW YORK, FEBRUARY 19, 1891.

No. 142.

THE AMERICAN FLORIST

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JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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SEND YOUR adv. now for our special Easter number of 40 pages, March 19.

THOUGH we have added four extra pages to this issue we are still obliged to lay over till next week several very interesting and valuable articles.



Notes on the Queen of Autumn.

BY JOHN THORPE.

[Read before the Mass. Hort. Society Feb. 7.]

If it had been predicted ten years ago that the chrysanthemum should hold the position it does now, it would have been said such a thing is not possible.

Let us for a moment look about for the cause of the chrysanthemum's popularity. It did not come in a night, a week, or a year, but it has taken twenty years to bring about what we are enjoying to-day.

When Robert Fortune sent to England his first consignment from Japan, 'twas then the first spark was kindled. An intelligent minority was far seeing and wise enough not to be disheartened or put down by the many who were wedded to the paucity of form and color possessed by the puritanical varieties of that day. Furthermore, that minority was not confined in one house, one city or one continent. Many members of your society, the greatest horticultural society in the world, happily belonged to Fortune's minority, one of the most prominent being your ex-president, Dr. H. P. Walcott. It was the work of time, love and the expenditure of much money to spread before the people the feast they now annually enjoy, but everything comes to him who waits.

It is but a few years since chrysanthemum shows were unknown, except perhaps in your city, New York and Philadelphia. The numerous exhibitions, amounting to nearly 50, held last season are proof of the progress the chrysanthemum is making.

A FEW POINTS ON CULTIVATION.

I do not intend to give you the routine of general cultivation, as I am sure many of you know how to grow chrysanthemums better than I do. But there are a few points to which I desire to call your attention. One is don't ever neglect a chrysanthemum. This ought to be written very plainly on each plant.

No plant can be so successfully cultivated in as many forms. It matters not whether the plants are grown as massive specimens, tall standards, or on benches a few inches apart; if they receive the proper attention the result is always commensurate. The thousands of plants that are now required to produce fine flowers for sale have brought about a

system differing entirely from that followed previously.

The plants are grown continuously under glass, and are treated as follows: Good strong cuttings are rooted in May. The plants potted into thumbs, from thumbs into 3-inch, and from 3-inch to 5-inch. Then in June or the early part of July they are planted on benches, 16 to 24 inches apart, according to size, the soil being from four to six inches deep, using soil as for roses. They are pinched back so as to give from four to six shoots, carefully trained and well supported; syringed often and watered carefully. Air is given at all times, providing no draught is created.

The buds are selected at the end of August or the beginning of September, one bud to each shoot. The rest of the buds are rubbed off and all superfluous wood removed. As the plants grow they are tied, and as soon as the buds are well in sight commences the feeding with liquid manure.

It is necessary to state that such plants require at least five feet of head room, otherwise they have to be bent down. Some cultivators do away with benches altogether and plant on the ground. Others do not plant until August plants are smaller. Then they are placed closer together, often not more than six inches apart.

During the flowering season air is kept on at all times, and fire heat enough to keep the temperature at 50° at night.

THE CLASSIFICATION OF VARIETIES.

The grouping and classification of varieties is now in a somewhat ambiguous and unsatisfactory state, and worthy of serious attention. Exactly how to bring about what is required is a difficult question, owing to the continual addition of new forms and the merging of one section into another, thus often obliterating the lines of demarcation.

Perhaps, as a temporary relief, the best thing to do is to accept the classification, as far as it goes, of the National Chrysanthemum Society of England, which is as follows:

Section 1. Incurved, of which the George Glenn and the Queen of England are the types.

Sec. 2. Japanese. This is divided into four groups. Group 1, Peter the Great, flat petals; group 2, Bronze Dragon, petals quilled; group 3, Cossack, petals fluted.

Sec. 3. Japanese incurved. Type, Comte de Germiny.

Sec. 4. Japanese reflexed. Type, Elaine.

Sec. 5. Reflexed. King of Crimson.

Sec. 6. Large anemones. Type, George Sand.

Sec. 7. Japanese anemones. Type, Fabiana de Medina.

Sec. 8. Pompons. Type, Bob.

Sec. 9. Pompon anemones. Type, Antonius.

Sec. 10. Single flowers.

But this does not cover all the ground. Mrs. Hardy and her type have no place. Neither have Violet Rose and Ada Spaulding.

SEEDLINGS.

The raising and distribution of seedlings has assumed proportions beyond conception, from which we may expect startling results. Of American raised seedlings, to be distributed this spring, the number is over 120. Taking into account the number distributed last year, and out of that there are at least 14 that rank among the very finest, we may expect that at least twenty-four of this year's introduction will be among the best at next flowering time.

It is hoped that due care will be exercised in the awarding of medals and in the granting of certificates, now that there are so many to select from. A rule should also be made absolute that neither a medal nor a certificate shall be given to any seedling unless it is named, and this name is not to be changed. The fact of giving medals and certificates to seedlings bearing numbers only is calculated to be misleading and confusing.

I do not wish it to be understood that I object to the exhibition of seedlings under number when they are placed on exhibition only, but as soon as they enter into any competition let them be properly named.

It is also hoped that in making awards to seedlings neither anemones, pompons, nor any other type will be overlooked or discarded as it is in the varied forms that so much interest lies.

EARLY FLOWERING KINDS.

It has been asked whether very early kinds are desirable. My reply is that, with one or two exceptions, the very early varieties we now have are not of great merit. They lack either vigor, distinctness or brilliancy, all of which they should possess as decorative plants.

But suppose we have presented to us a group having robust, compact growth, bright and decidedly healthy foliage, flowers of the type of and as large as President Hyde, and in desirable colors, flowering from the 15th of September, what could be more desirable? We are promised such a group, and they will be heartily welcome.

COLOR DEVELOPMENT.

That constant additions are being made to the already numerous shades and tones is known to close observers. The pink shades are becoming each year clearer; the red and crimson are getting brighter. The once undefined shades of purple are decidedly more brilliant and effective. As to yellows and whites, we are yearly presented with something different from what we already had.

Coming now to the possibilities of a blue chrysanthemum, let me say that I am convinced we shall have shades of blue as positive as we now have blue shades in pansies. It is within the memory of a great many of us when there were neither red nor blue shades as presented in the pansies of to-day.

NEW TYPES.

Just as long as there are produced new types and new shades of color, just so long will the interest in the cultivation of the chrysanthemum be kept up. We have but to remember the interest that that beautiful variety Mrs. Hardy and her followers created.

Now we are evolving a type which is certain to create further interest. Its distinct characteristics are the marked extension of the ray florets beyond the

body outline of the flower. Examples are Violet Rose, Ada Spaulding and Flora McDonald. The ligulate petals are broad, numerous and incurving. It may be that a good name for this type would be American.

Yet another type, the original of which is Laciniatum, one of Fortune's importations from Japan, is being developed in all colors and in the largest sizes there are.

Still another form, distinct in every particular, is the one where the flowers present two distinct surfaces. The upper surface is composed of broad reflexed petals, the lower surface being a mass of narrow segments which extend from either side of the base of each floret.

These are only a few of the newer forms waiting to be brought forth.

POSITIVE CROSS-FERTILIZATION.

Grave doubts have been expressed whether actual cross-fertilization has ever been accomplished artificially in chrysanthemums. To this I can positively say that it has, without the shadow of a doubt, but I do not say that every variety can be so crossed. All flowers intended to be fertilized must have their petals clipped off close to the stigmas before the flower opens. This admits of the development of not only the stigmas but of the ovary also.

Some varieties will be found entirely sterile. Grandiflorum has never yet given me a single seed, and, as far as I am able to tell, the pollen grains are sterile also. Where cross-fertilization is carefully and successfully done, fewer seedlings give the best results.

POSSIBILITIES BY SELECTION.

The possibilities to be obtained by selection is just as applicable to the chrysanthemum as it is to any other class of plants or animals. In fact, wherever seedlings are raised it is by selection that we obtain variety, whether they be large flowers or small, tall plants or dwarf. It is by selection that, after a few generations, each raiser creates a standard of his own, and by which his productions are known. It is simply this: You have different material and different ideas from me, consequently the result must be different.

DOLLARS AND CENTS.

From a strictly commercial point of view, the chrysanthemum has become of national importance. The annual sale of plants is now over a million. The numbers of cut flowers that were sold in open market last year is almost incredible, many of the best flowers realizing \$50 per 100 at wholesale. Some of the large growers around New York had as many as 30,000 flowers in sight at one time, averaging a great deal better in quality than many of the winning flowers that were to be seen on the exhibition tables a few years since.

It has been stated that the chrysanthemum flowers interfere with the sale of roses and carnations, but I notice that nothing interferes with chrysanthemums in their season.

Growing Exhibition Blooms.

BY J. M. DUNLOP, WAUWATOSA, WIS.

[Read before the Wisconsin Florists' and Gardeners' Club at the Wisconsin Horticultural Convention.]

To grow chrysanthemums well we must start off well; that is, we must have strong, healthy cuttings. I plant out my stock plants on benches in good soil. I have two reasons for this. The first is, I can procure a better cutting from them than I could get from a plant in a pot which has been highly fed. The second is

I can get any quantity to choose from, those coming up from the root and about as thick as a lead pencil being preferable. There is some diversity of opinion as to the best time to propagate: some growers believe that winter, others that spring, cuttings are best. But after November I always put in a good one when I see it. Plant them with sandy soil in thumb pots, and place them in a temperature of about 50°, not necessarily in a shaded position, paper laid over them about noon for the first two or three days will be all they will need. With a little attention they will root in about three weeks, and from this time on they must never suffer for want of attention, in fact it is courting certain failure to neglect the chrysanthemum in the early stage of its growth. I have always found the best results by keeping them growing on slowly, being careful not to let them get dry or root-bound. If they do you will have plants with hard, bare stems, with perhaps a couple of leaves on the top, after which you might as well consign them to the rubbish heap, as labor on them is so much labor thrown away.

Plants struck in winter will be ready for repotting by the end of February; give them a shift into 3½-inch pots and place in a position near the glass so as to keep them dwarf and strong. The only attention they will require will be to keep them watered and clean of green fly, being careful not to get the plants too crowded together. They will be ready to move into 5-inch pots by the first week in April; then give them a place in a cold frame, keeping them rather close for a few days until they take to the soil, after which, the weather being favorable, give them abundance of air, dispensing with the sashes entirely when frost has gone. If all goes well we will now have a strong growing plant, about one foot or so high, according to variety. The rest of the plant being clothed with thick leathery foliage down to the rim of the pot, this being very important, as it will enable it to stand more feeding when it is developing the flower, thereby giving better results. But unfortunately some varieties, such as Meg Merriles, will throw their foliage no matter how well you guard against it.

About the middle of June the plants will have completed their first growth and will make what is known as their June break. Now they will require to be gone over and disbudded, taking out all the buds but the three next to the top, and give the plants a stake to keep the wind from injuring them. About this time they will be ready for shifting into their blooming pots, giving them 7 or 8-inch, according to variety. Chrysanthemums being water loving plants, the pots must be thoroughly well drained, so as to prevent the soil from getting sour, and plant them in good turf, adding some burned ashes or some other material to keep the soil sweet and porous. I have always used this simple compost, my experience being that it is better than a little of this, that and the next thing. The idea is to put something in the pot that will retain the food the plants will afterward receive in a liquid state.

After potting place them in a sunny position, not necessarily in a place where they get the full blaze of the noon-day sun, but the three next to that, being preferable as it will enable you to avoid getting the plants ripe too early. I take a lot of common boards, lay them on the ground about four feet apart, running them north and south, and place the pots on them. This in a great measure prevents the worms from getting in and



destroying the drainage. Water carefully for the first week or two till the roots begin to work freely in the soil, after which they will require an abundance of water. The plant will now require three tall stakes each to train the three separate shoots to, or erect some light trellis work which will answer the same purpose and I will prevent the wind from tipping over the pots.

By the first or second week in August they will form their crown buds; now comes a very important part in chrysanthemum growing, more especially if they are grown for the show table. Some of the earlier varieties will require to be allowed to go and take the terminal, but varieties such as the Comte de Germiny, Mrs. F. Thompson, etc., ought to be grown from this bud. They will require unremitting attention, going over them daily and removing all superfluous growth, breaking out with the point of the finger all the small buds appearing around the flower. I generally leave one wood bud till I see if the latter is perfect; if not I should let it run to the terminal bud, which will form in two or three weeks. The plant will require to be gone over every week or so, removing all lateral growth and suckers from their roots so as to send all the food to the flower.

As soon as frost makes its appearance in the fall the plants must be all housed or otherwise protected, as a few degrees of frost will entirely spoil your summer work. Place them in a light, airy house, giving

sufficient air day and night. A little fire heat at night will prevent damp from settling on the petals, and will also be a good preventive of mildew, and by the first or second week of November you will be able to measure your blooms according to the measure of skillful planters you have given the plants.

Perhaps the most important point in chrysanthemum growing is the handling of the watering pot. Although they are water-loving plants they should never get it except when they require it, and never manure water when the soil is dry. I generally water with pure water first, then go over them afterward with manure water, thereby preventing the young feeding roots from being destroyed. After the flower buds begin to grow I commence feeding the plant, giving a little at first and gradually giving it stronger until the flowers show their petals, after which gradually give less, and when the flowers are expanded give pure water.

In regard to what liquid manure to use, I think cow manure is the safest to work with, changing off to bone dust, guano water, or in fact anything that will nourish a gross feeding plant.

To make sure of having sufficient flowers to choose from in November, we must grow four plants of the varieties we want to show; even then lots of them will be a disappointment to the grower, as the several varieties will not always do equally well year after year. Thus, if growing to show twenty-five distinct varieties it would be well to grow thirty

varieties, which would make in all about 120 plants, and would give 360 flowers. No doubt you will say that will not pay for commercial work, but I am satisfied that it will pay better even for that work than growing poor specimens in the bush form. More especially if you can realize three, four or five dollars per dozen for the flowers of the former.

Another way to get large flowers is to cut the plants over about five inches from the pots about the first of June, train up three shoots, take the first bud that appears and give the same after treatment. Still another is to take the tops of the plants you intend for bush specimens in May, root them and grow them in 4 or 5-inch pots. These, with liberal treatment, will give large, fine flowers and you will have a plant that you can stand and look down on. These grown on the extension system, I am afraid some of our smaller brethren will require a step-ladder to get up to see how the flowers are getting along.

It will not be necessary to give a list of the varieties to grow, as every one of the named varieties have some good point to recommend them. Then there have been so many new ones making their appearance of late years that one almost gets lost among them. But I think it is good policy not to invest too much in new and rare varieties; rather grow something that you have proved to be good.

The Missouri Botanical Garden.

In this issue we present a number of views in the Missouri Botanical Garden, and a portrait of the late Henry Shaw, to whose munificence we are indebted for this garden which has in the past done and will in the future do so much for horticulture. The engravings are selected from among those which appeared in the book recently issued by the Trustees of the garden, a notice of which appeared in a late issue of the *FLORIST*. We are indebted to Prof. Wm. Trelease, Director of the Garden, for the use of the plates, and the facts which follow are gleaned from the book before mentioned.

Henry Shaw was born in Sheffield, England, July 24, 1800. His father was a manufacturer of hardware. In 1818 he came with his father to Canada, who soon after sent him to New Orleans to learn the mysteries of cotton raising. His stay in Louisiana was, however, short, and he soon started out on his own account with a small stock of cutlery for the then small and remote French trading post called St. Louis, where he arrived May 3, 1819. His business prospered amazingly as the post grew into a city and at the age of only 40 years he was enabled to retire from business with a fortune of \$250,000 (equivalent to \$1,000,000 in our day). He then traveled for several years and the beauties of the great gardens in England suggested the idea of building up something equal or better in America and in 1837 plans for the present garden began to take shape. From that time on it was the work of his life to which he devoted both his time and money.

He died August 25, 1889, and his will gave the Botanical Garden splendidly endowed, and the Henry Shaw School of Botany to named Trustees for the benefit of the public. There could certainly be no grander or more enduring monument to his memory. Among other bequests was one of \$1,000 annually for a banquet to the Trustees of the Garden and the students and patrons of the natural sciences they may invite, and \$400 an-

usually for a banquet to the gardeners of the institution and invited florists, nurserymen and market gardeners of St. Louis and vicinity. Also \$500 annually for prizes at a flower show or exhibition, and \$200 for an annual sermon "On the wisdom and goodness of God as shown in the growth of flowers, fruits and other products of the vegetable kingdom."

This splendidly equipped and endowed garden is under the direction of Prof. Wm. Trelease, and that many of the problems that have vexed practical horticulturists will be here elucidated for the general good there can be no doubt. In this way the garden will exert a national influence.

Among the features of special interest to gardeners is a provision for the free education of a number of young men in the science of horticulture. Not to make them scientists but to enhance their skill as practical gardeners. The details of this plan as arranged by Mr. Shaw were given briefly in a former issue of the *FLORIST*, and since then a son of one of our readers made application, passed the examination and has begun his course of study as a "Garden Pupil." Among the illustrations in this issue appears one giving a view of the building where these garden pupils are lodged. The entrance into the ranks of the craft of a goodly number of men trained in the scientific as well as practical details of plant growing can not be other than vastly beneficial and materially advance horticulture in America.

The Springfield, Mass., Amateur Horticultural Society.

I was in Springfield a few days ago, and in the evening attended a meeting of the Amateur Horticultural Society. The town has a population of about 40,000, and is familiarly known as "The City of Homes." It is a very beautiful place, built on rolling land, and has wide streets shaded with elms and other trees; and here are situated the United States Armories, where the famous Springfield rifles we use to kill the Indians with are made.

This society was inaugurated about two years ago, and its growth has been wonderful. It now numbers 552 members, ladies and gentlemen, and two honorary members. They come from every walk in life, artisan, commercial and professional; every one interested in the garden or in flowers is invited to join the society. And the members are active, interested and appreciative. They hold meetings twice a month, and these are well patronized by both ladies and gentlemen brim full of good will toward one another and interest in floriculture and inquisitiveness about ornamental plants and flowers. It is a happy family, and a stranger is at home among them.

To relieve the weariness of business matters and intensity of discussion piano and vocal music are rendered by some of the lady members, and downright enjoyment is printed on every countenance. Formality, creed, politics and social grade are leveled before the throne of Flora; everybody knows everybody and is happy to see everybody, and the plants and flowers they have come to discuss are a ready theme for everybody. This is no "School for Scandal"; their neighbors' weaknesses have no concern for them. They want to know why early-sown China asters are more apt to come semidouble than late-sown ones; what you think about roses on their own roots and budded; how about their pansies that

are under the ice; if any thing short of elbow-grease or warm water (120°) will free their house plants from red spider; why there isn't a blooming plant of *Ostrya magnifica* in the country; why *Delphinium* *Lillisi* so hard to get up from seed; if a Colorado blue spruce and a Japanese umbrella pine would be two nice evergreen trees for a town garden; why the Chinese double-flowered bird-weed is like one's poor relations, and many other things. These questions are asked by the several ones interested in them and answered by those who can, or referred by the president.

All the members, however, are not equally prompt upon their feet or ready to speak out in meeting and make known their wants, but even they have no excuse, for all are supplied with question cards on which they are asked to write any question about flowers or plants or gardening that may interest them. These cards are then collected by the secretary and the questions given to the meeting by the president.

QUESTION CARD.

SPRINGFIELD AMATEUR HORTICULTURAL SOCIETY.
C. L. BURR, Pres. G. H. LAPHAM Sec'y.

It impressed me as a splendid arrangement.

And what a happy meeting it was altogether! Husband and wife, and parents and children, all were here and all interested in flowers and how to grow them, which is the purest, most refining and delightful recreation in which one can engage.

The influence of this society is, I am informed, already very potent in the gardening of Springfield. And one gentleman, 62 years old, and who never before had a garden, told me he, too, was going to have a garden this year.

But in what way does this, an amateur society, interest the florist? Every one of these amateurs is interested in his garden and must have plants to set out in it and seeds to sow in it. Then from whom shall he get them? W. F.

Fern Notes.

Adiantum cucumatum and its various forms continue to occupy the most important place among trade ferns, as the thousands of cut fronds as well as the many thousands of plants in pots that are annually distributed in each of the large cities abundantly testify.

Among these forms one of the commonest and a very good one is *A. cucumatum* *Roebeckii*, this having longer fronds than the type, and the pinnae being usually smaller and finely serrated on the edges. The size of the pinnales is, however, a somewhat deceptive characteristic to judge by, while the serrations of the edges remain a more fixed feature.

This variety has been in the trade for a number of years and is now well known and esteemed, especially for cut fronds, its comparatively long stems being rather an advantage for this purpose.

Decidedly one of the finest forms is *A. cucumatum* *grandiceps*, the long drooping heavily crested fronds of which are highly ornamental. This variety was also of garden origin, and is very freely reproduced from spores.

A. c. grandiceps, I think, fully as hardy as the type and consequently is a valuable addition to the available stock

for fern pans and similar work, besides being an admirable exhibition sort when nicely grown.

Another very pretty variety and quite dwarf in habit is *A. c. mundulum* which throws up a compact growth of nearly erect fronds, the latter being more or less triangular in outline and dark green in color. *A. c. mundulum* is a charming little plant for small work, but is not specially desirable for cutting on account of the fronds being too short.

Still another fine form is *A. gracillimum* this also being a garden variety of *A. cucumatum*, and one that has earned for itself wide recognition during the fifteen years or thereabouts that it has been on the market.

The fronds of *A. gracillimum* are of somewhat irregular outline, very finely divided and much branched, and are invaluable for certain cut flower arrangements, their delicate dark green pinnales lending an additional charm to the latter.

This is also freely reproduced from spores and is of rapid growth, though from the delicacy of its fronds is more likely to damage during the winter if carelessly watered than are some of the more robust varieties.

The damping off of any of these varieties can usually be prevented, however, by watering early in the day and ventilating freely whenever the weather will permit, at least this will prevent it unless the plants are very badly crowded.

Rather an odd looking form is *A. cucumatum* *deflexum*, which is also of garden origin and is said to be a hybrid between *A. Bausei* and *A. cucumatum*. The fronds of this variety are triangular in outline and of medium size, and as its name indicates the pinnales are deflexed or bent downward, this peculiarity giving a strange effect to the plant, and not altogether a happy one, as it is apt to create the impression that the plant is suffering from lack of water.

A. c. deflexum is of compact habit and makes a shapely little plant, but does not seem to have been received with enthusiasm by the trade, and consequently is seldom seen in quantity, though introduced about ten years ago.

A. c. Lawsonianum is also a pretty form and has graceful fronds that are scantily clothed with small pinnae, the latter being cuneate in form, though quite narrow. It is a moderate grower and the fronds stand very well when cut, but still it is doubtful if this variety is essential to the average florist, though of value to one who does considerable amateur trade.

In addition to the forms of *A. cucumatum* to which reference has been made there are several others that have been named and sent out, though probably in very limited quantities, and among them are *A. c. Bournei*, *A. c. dissectum* and *A. c. strictum*, the latter having erect fronds on which the pinnales are arranged more or less spirally. Perhaps it is of questionable utility, however, to name and perpetuate many of the odd forms that are so frequently found among seedling ferns, for many of them are no improvement on the type, and the christening of such with a high sounding descriptive title only leads to more tangles in nomenclature.

Pteris nobilis: Among the comparatively recent introductions this appears to be a fern of much promise for trade use. It belongs to the cretica class and is possibly a seedling from *P. cretica* *magnifica*, but whatever its origin is, it seems an acquisition, being compact in habit, though a vigorous grower and



A PORTION OF THE PATERRE. MISSOURI BOTANICAL GARDEN



THE LOTUS POND. MISSOURI BOTANICAL GARDEN.

having semi-erect fronds of bright green color, all the tips being well crested.

All the forms of *Pteris cretica* possess much endurance, the foliage being firm and tough, and this newcomer will doubtless adhere to the family trait in this respect, and consequently will find a ready opening as soon as sufficient stock shall have been secured.

W. H. TAPLIN.



Souvenir de Wootton.

When one has a friend who has used him well or has stood between him and some awkward dilemma in which he has been placed, one naturally, and I think very properly, feels like standing up in defense of such friend, should his good character be called into question. Just in this way do I feel with respect to a rose whose character has in my estimation been very unjustly disparaged, namely, Souvenir de Wootton.

In want as we are of a good red rose, Papa Gontier does well and is good in its place, American Beauty is not productive enough to pay at the prices which we can command. Here was the dilemma when Wootton steps in and fills the bill pretty well. I say pretty well, because although Wootton is a good rose I think it is the same with it as with all other matters horticultural, there is room for improvement.

I have 300 plants of Wootton, 150 were planted on bench July 1, and were very good plants, the other 150 were planted August 15, and were very poor. In fact these last do not average more than one foot high at present writing and have not produced more than one quarter of the blooms cut up to present time. I give below the number cut from the 300 from December 1, 1890 until January 15, 1891, although I do not think it by any means a large yield for that number of plants. The flowers were of good size and color and sold as freely or more so than other good roses in Toronto.

Dec.	1-5	5-20
"	2-16	" 25-25
"	3-11	" 26-10
"	4-13	" 27-32
"	5-17	" 28-36
"	6-7	" 29-27
"	7-13	" 30-35
"	8-40	" 31-18
"	9-19	Jan. 1-34
"	10-19	" 2-19
"	11-52	" 3-23
"	12-21	" 4-19
"	13-30	" 5-34
"	14-41	" 6-12
"	15-57	" 7-25
"	16-22	" 8-28
"	17-31	" 9-14
"	18-27	" 10-13
"	19-22	" 11-11
"	20-26	" 12-31
"	21-19	" 13-16
"	22-30	" 14-10
"	23-14	" 15-25

Total.....1,060

I have very few points to offer in the way of culture. I propagate nothing but good healthy well ripened wood, a strong

point, as I think a good healthy plant is half the battle. Treat same as tea roses, do not use any top dressing of any kind. Grow in temperature not higher than 56° with plenty of ventilation on all possible occasions. Watering: Mr. John May says in a recent issue of the AMERICAN FLORIST: "Every day's experience convinces me that we have all very much to learn in this direction." I am with Mr. May on this point. With me Wootton uses more water than any other rose I grow, but at the same time I think the soil in which it is growing should be allowed to dry out pretty well between each watering.

Brampton, Ont.

H. DALE.

Coming Exhibitions.

March 17-20, Philadelphia.—Spring exhibition Pennsylvania Hort. Society.

March 25-26, Montreal.—Spring exhibition Montreal Gardeners' and Florists' Club.

March 25-27, Boston.—Spring exhibition Mass. Hort. Society.

April 7-11, New York.—Spring exhibition New York Florists' Club.

April 14, Los Angeles, Cal.—Rose show Southern California Floral Society.

April 16-17, Syracuse, N. Y.—Spring exhibition Central New York Hort. Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.



Carnation Lamborn.

Doubtless the several criticisms which have recently appeared in the FLORIST upon my article of January 8 have been very interesting reading, and the same have probably brought out some valuable data which might otherwise have been withheld, but has it occurred to the general reader that the most conspicuous of my critics are grossly in error? Now I greatly dislike the task of dashing the cup of bliss from the lips of these exultant heroes just at the time they are regaling themselves with such a generous swig, but it does seem to me that now is about the time that I should become the critic. I will therefore at once proceed to lay this matter out in a plain business like manner, and while these gentlemen have permitted themselves to be caught in their own traps I will endeavor to convince them that I can afford to be magnanimous.

Mr. Lombard at the commencement of his criticisms on page 378, issue of the FLORIST for January 22, says that fair and just criticism helps us to greater efforts; very well Mr. Lombard let that be our text: Mr. Lombard then goes on to

explain that in two months and eighteen days he gathered 6,376 carnation flowers, which at wholesale barely averaged 2½ cents each, and which netted him 22½ cents per plant for 700 plants. Now permit me to say to Mr. Lombard to begin with that he appears to be in error; according to his own figures his net is only imaginary, for the reason that he has made no deduction for cost of production; I always deduct 50 per cent for this purpose and if Mr. Lombard does the same he will find his flowers bring him, and his 700 plants net, he receives something less than half the amount he names. But as Mr. Lombard fails to make any deduction for expenses and also fails to give us the space occupied by his 700 plants, and leaves his statement incomplete in other ways, I will leave him to revise it at his leisure.

But Mr. Wm. Nicholson of Framingham, Mass., offers us the basis of something tangible to work upon. This gentleman on page 398 of the FLORIST for January 29, with a heart bubbling over with gratitude and exultation, tells us of the great interest with which he read my letter of January 8 and kindly congratulates me, etc., etc. He then proceeds to say that from a new house 100x20 feet which he has devoted to carnations this winter; and in which he had planted 1,700 carnation plants, from 1,500 of which plants he thinks he gathered in October, November and December 25,000 carnation flowers, and that he expected to gather a good many more in January. Now my dear Mr. Nicholson let us call it 35,000 perfect carnation flowers and for convenience sake bring the account down to February 1. You do not mention the price you obtained for the flowers, but as Mr. Lombard says he obtained about 2½ cents we will presume that you received about the same price for yours, which would amount to \$875 for the 35,000; but as Mr. Nicholson has also neglected to make a deduction for expenses I will do it for him and deduct the usual 50 per cent for cost of production and all expenses; this will leave Mr. Nicholson \$437.50 as the net result of his 35,000 carnations, and according to his estimate the gross proceeds for four months of a new greenhouse 100x20 feet, or a greenhouse surface of 2,000 square feet. This, I believe, is Mr. Nicholson's case in a nut shell, according to his own statement as I understand, and I presume other readers of the FLORIST understand it.

Now, gentlemen, we have come to the point where I can present you with my own statement, a statement which can be verified by any of the gentlemen who have visited me during the last four months; it can be verified by my books or sworn to if necessary, and if it causes a wide expansion of your optics I cannot help it. You will now permit me to refer you to my letter of January 8, which you all seem so jubilant over. You will find that I distinctly state in that letter that the two side benches of my new frame greenhouse and part of another side bench are occupied with carnation Lamborn, there being altogether a little more than 3,500 plants. My new greenhouse is 120x18 feet, and the actual space occupied by these 3,500 Lamborns is exactly 801 feet, 199 feet less than half of the space inside of Mr. Nicholson's new house. Now, as stated before, and that has afforded my friends so much joy, in these 3,500 Lamborns in October, November and December furnished me with 10,000 good pure white flowers, and in January they gave me just 6,000 more



THE MAIN TURF WALK MISSOURI BOTANICAL GARDEN



THE MUSEUM GATE MISSOURI BOTANICAL GARDEN.

flowers, making altogether down to February 1st 16,000 in four months.

I have brought the account down to February 1 to use in comparison with Mr. Nicholson's account. These 16,000 Lamborn flowers have, taking into consideration the different requirements of my business and after a deduction of 50 per cent for cost of production, netted me \$50 per 1000, or for the 16,000

Net.
\$800.00

These 3,500 plants of Lamborn have also up to February 1 given me something over 40,000 cuttings, the bulk of which are either already sold or engaged.

The advertised price of these are \$2 per 100 or \$15 per 1000. Half the number at \$15 per 1000 will be \$300, less 50 per cent;

\$150.00

half the number at \$2 per 100 \$400, less 50 per cent;

\$200.00

On the northern end of the center bed of this new house are planted between 1,100 and 1,200 plants of Lizzie McGowan carnations; these gave me during last November a number (only about half of them being allowed to flower) something over 6,000 flowers, 1,000 of which were used in my store in one day for funeral work, 500 were gathered the day before the photo was taken which appeared on page 323 of the *FLO-RIST* issued Jan. 1, the balance were gathered throughout the two months and netted me \$50

per 1000, or

\$300.00

These Lizzie McGowan plants up to Feb. 1 have given me a little over 20,000 cuttings, all of which are rooted, sold and ready to ship when the time comes, which is Feb. 10. The advertised and sale price of Lizzie McGowan is \$12 per 100, \$100 per 1000. About half have been sold at the 100 and the other half at the 1000 price, or at an aggregate of \$3,300, less 50 per cent for cost of production

\$1,650.00

Quite a number of extra strong plants of this carnation have been sold at \$3 per dozen, but I will make no special account of them.

But at the south end of the center bed of this house are planted about 500 plants of Silver Spray carnation. These gave me during the same time 2,000 flowers which were also good and brought the same price net as other white carnations, or

\$100.00

these also gave me 5,000 cuttings, which at \$15 per 1000, less 50 per cent for cost of production

\$37.50

The new house referred to, as stated is 100x18, and during the four months up to Feb. 1, 1891, has netted me clear of all expenses,

\$3,237.50

Mr. Nicholson's statement for the same time for a new greenhouse of just 160 superficial feet less than my own nets him

\$437.50

Yes, Mr. Nicholson, I agree with you, comparisons are indeed odious as you say in your letter to the *FLO-RIST* of Jan. 29. My dear sir I wish to state to you that the insignificant little dab of \$437.50

which you so gloat over as four months' revenue from your new 2,000-foot greenhouse would barely pay the yearly tax on that much real estate if you were situated and doing business under the same circumstances as myself.

Mr. Nicholson says that Mr. Chitty makes a good deal of the fact that in three months he cut within a mere shade of 10,000 flowers from 3,500 plants, I ought therefore to feel satisfied at having been able to cut over 25,000 flowers from 1,500 plants in the same time. Yes, Mr. Nicholson, you may be satisfied, but I can assure you, Mr. Lombard, and the rest of my good natured critics, that you would have to stow a very different business record in these parts if you wished to keep the wolf from your doors, as Mr. Lombard says.

There is another little item I may mention here, on my 3,500 Lamborn plants I can now see at least 20,000 cuttings ready as soon as I have room for them, and on my Lizzie McGowan plants there are at least 15,000 cuttings ready soon as space offers. Gentlemen how do you like the appearance of my statement? Would you like to have it verified?

Mr. Nicholson seems to take delight in referring to carnation Lamborn as Mr. Chitty's pet. I can assure you, gentlemen, that my pet is the one that will enable me to meet my heavy expenses which stare me in the face at every turn. Nothing short of that is a pet of mine. Ponder over the above statements, gentlemen, you will not lose anything by so doing.

Quite lately I had the privilege of reading a letter written by a carnation grower in the vicinity of Boston, in which the writer condemns both the Lamborn and Lizzie McGowan, but I am informed that when Mr. Robert Craig was at Boston during the convention last summer he was so d-lighted with the carnation Mrs. Fisher that he purchased 1,000 plants of that variety. When Mr. Robert Craig was at my place, just before last Christmas, he purchased of me 5,000 plants of Lamborn and 12,000 plants of Lizzie McGowan. Gentlemen, do you suppose that when Mr. Craig was looking at my Lamborns and McGowans he had forgotten all about Mrs. Fisher? Scarcely likely, gentlemen! Scarcely likely! At that time my McGowans were loaded with flowers and Mr. Craig advised me to sacrifice the flowers for the benefit of the cuttings. I took Mr. Craig's advice, gathered all the flowers and a solid bushel of buds, since then no flowers have been allowed to develop.

Now, brother florists, since we are all so good natured over this carnation business, I will tell you what I will do. I will exhibit 25, 50, 75 or 100 flowers of Lamborn against an equal number of Mrs. Fisher at Chicago, Philadelphia, or any where else out of Boston, for any amount of money over \$50 to \$100, that you gentlemen may designate. If you like the flowers can be sent to Chicago in care of the American Florist Company, who can provide the judges. Chicago would be a good distance, the shipping and keeping qualities of both can then be determined at once. I stand ready to put up the money any time.

And, moreover, I stand ready to arrange to exhibit next November at either Philadelphia, Chicago or New York, a given number of Lizzie McGowan against any white carnation in the United States for any amount of money the backers of Lizzie's opponents may decide upon.

H. E. CHITTY.

Paterson, N. J., Feb. 7, 1891.

Fungus in the Propagating Bed.

In reply to the query on page 432 will say that if temperature is kept above 65° and if cuttings are in an ordinary sand bed fungus will develop no matter where you get your sand from. To overcome this use earthen saucers, say from 10 to 12 inches in diameter and 2 inches deep without the drainage hole in the bottom (they can be bought of any potter). A very liberal use of water will keep your cuttings free from fungus. C. EISELE.

Philadelphia.

Replying to enquiry of Jas. Jensen about fungus in propagating bed, I think the fungus was probably in the sand when put in the bed, and the easiest and a sure way to eradicate it is to carefully move his cuttings, and then thoroughly saturate the sand with scalding hot water. This will kill every living thing and leave the sand very nice and clean.

Cohasset, Mass. W. S. PHELPS.

In response to query about fungus in the propagating bed, my experience with this fungus among cuttings and seedlings for quite a number of years does not enable me to speak of any preventive. Modifying conditions are well ripened seed or, as the case may be, cuttings from vigorous healthy plants, and avoiding as much as possible a close ungenial temperature to what the varieties may best require.

From practical observation in partially dry sand or soil the fungus is more destructive than it kept regularly moist, but not soggy wet. However, making a specialty of growing seedling flowering plants I find it to develop in seed boxes with rich or poor soil, and in all conditions of moisture and temperature. The trouble seems mostly to come from the plant's side, rather than from the sand or soil. A flat of Phlox Drummondii seedlings will almost invariably come through free, while almost any stock of *Impatiens*, *Primula*, *Viola*, *Geranium*, *Verbena*, *Penstemon*, *Salvia*, *Campanula*, *Delphinium*, *Hydrangea*, *Philadelphus*, *Abutilon*, *Double petunias* and *verbenas*.

If the bed is very much affected best throw the sand out, otherwise if stirred around frequently till partly dry I have found very little trouble by using it over. If the fungus gets in contact with wood, as the sides of the cutting bench or flats, germs of it will develop afterwards from such contact. Tanned or oiled paper put over the place will prevent it.

My only remedy for this pest is vigilance, going the round at least once and often twice a day over the cuttings and seed boxes. The morning is a good time, and if the least spot is observed it is scooped out to its utmost extent, and keeping a pan of perfectly dry sand as hot as a steam pipe will make it, such affected places are covered with it, and a close watch kept for a few days to note any further development.

It seems heroic treatment, but I have never killed any cuttings or little seedlings in this way. DANIEL K. HERR.

Lancaster, Pa.

I would advise Mr. Jensen to do away with his nervousness in applying water. Keep your propagating bed moist and if it needs water in the evening water it. And keep temperature below 70° over night. I think the fungus makes its appearance mostly in a cold spell when the outside air is dried out by strong wind and this and a brisk burning fire make



WILLOW POND IN THE ARBORETUM. MISSOURI BOTANICAL GARDEN.



LODGE FOR GARDEN PUPILS. MISSOURI BOTANICAL GARDEN

the air and bed in the house very dry, and the temperature is likely to go too high. Anyway after every cold snap we read in the *FLORIST* of greenhouses having been destroyed by fire. A little ventilation also helps to keep off the fungus. I do not think it makes any difference what kind of sand is used.

If Mr. Jensen will take care not to let the sand dry out and keep a temperature of not over 70° during the day and 65° nights, and not keep the house too tight, I should like to have him tell us after a few weeks how the fungus behaves under such conditions. EDMUND BRAUER.

McConnellsville, O.

The Pitcher & Manda Exhibition at Short Hills, N. J.

This fine display of choice flowers will undoubtedly eclipse anything this firm has done in the past. They have open at the present time over seven hundred of the newer and choicer varieties of cypripediums, and over six hundred cattleya blooms, besides innumerable varieties of this great family. Among the choice cypripediums are to be found vexillarium, nitens, punctatum, violaceum, Measuresianum, regale, Sallierii Heyanum, bellatulum, villosum alba marginata, in quite a number. These new and choice varieties certainly show up very fine. Regalia, Sallierii balauchalum, villosum alba marginata are three new seedlings, never before blooming, crosses between Boxallii and venustum, showing very strongly the parentage of both. Another, which promises to be a very fine thing, is a cross between the Argus and supercilare, showing distinct characteristics of both. Among the general collection is the beautiful Arthurianum in all its graceful elegance.

Another very beautiful thing to be found here at this time is a new dendrobium never before bloomed in this country, a cross between Ruckerii and nobile; the petals are pure white, with a beautiful curved lip of yellow ground, mottled and striped throat with points bending at the base, and is a most charming thing. This is one of the seedlings raised in the late collection of Mr. De Witt Smith; and has been looked upon by the orchid world with a great deal of interest for a long time. Mr. Manda, who is probably as well versed in orchids as any man in the world to-day, considers it the finest specimen he has seen in a long time. Among other choice things to be found in this fine collection are the lycaste, masdevallia, both in fine varieties, and Odontoglossum crispum in its varied shades, forms and colors, being in itself quite a show, and worth going far to see. This is always welcome to all orchidists. The truly rare East Indian orchid Cymbidium Lowianum also figures conspicuously, and Cattleya Speciosissima, Percivaliana and Trianae; Saccolabium giganteum and dendrobiums in great variety. There are also fine specimens of Pharus grandifolius, and a great many other varieties of this popular family.

In their new range, which is very compact and well suited for the purpose for which they intend it is a large house, 160 feet long, twenty-four feet wide and twenty feet high. In this will be found a magnificent collection of palms, tree ferns and choice decorative plants, many of them almost touching the roof at the present time. The other houses are twenty by eighty, and contain a very fine stock such as a business firm of this character requires for the general trade. The first is devoted to propagating and is filled to overflowing at the present

time with choice stove and greenhouse plants, many of them very new and choice things which this firm has recently imported. Number two contains anthuriums, alocasias, etc., among which are included all the newer and choicer varieties of recent introduction. Number three contains a large number of superb Pandanus Veitchii, dracaenas and choice ferns, including Farleyense. Number four contains many rare kinds of ferns, palms, etc., young stock, all choice varieties. Number five contains all the choicer and newer kinds of palms of recent introduction. Number six presents an exceedingly attractive appearance; it is almost completely filled with the magnificent decorative plant Aracaria excelsa, and the way they are arranged in the house makes a very beautiful spectacle. Number seven is filled with choice azaleas and greenhouse plants generally. Number eight is filled with the choicer varieties of the latest introductions of chrysanthemums, showing great promise for the coming fall as many of them were not put out last year, and have been increased rapidly. So we may reasonably expect to see many choice varieties the coming season to swell the already immense number on the market.

The remainder of this range is now being constructed, and when completed will make one of the finest commercial ranges of glass to be found in the vicinity of New York. Great credit is due to this firm for their enterprise. Many of their visitors whom I have seen this week have expressed themselves as being particularly well pleased with the show.

Much is said and written about trying to increase the love of flowers and the diffusion of a knowledge of horticulture; this firm is certainly winning for itself a very enviable reputation in that line.

J. N. M.

Exhibitions.

Your correspondents have so far failed to mention one of the most necessary points to the best success of an exhibition, and one that if put in general practice would demonstrate the fallacy of its omission. I refer to the practice heretofore prevalent in this part of the country, of issuing exhibition schedules a few weeks and in some cases only a few days before an exhibition. It is utter folly to suppose that an exhibition can be first class where this practice is the rule. There are undoubtedly many good plants brought out on the spur of the moment, but to bring out the exhibitors in full force, and also the greatest number of good plants, it is necessary that the growers have ample time to prepare, and to know what to prepare.

When a society has no permanent exhibition place, and it is impracticable to name the location seven or eight months previous, this need not hinder the early issue of a schedule. Intending exhibitors could be notified in time to make their arrangements. Another great drawback to success is the lax enforcement of rules. The exhibits ought to be all in place, the judging done, and premium cards attached before the public is admitted. Herein lies one of the principal features of interest to the growers and the public.

Fairfield, Conn.

JOHN DALLAS.

Crude Oil for Fuel.

In response to the queries regarding the use of crude oil for fuel Mr. August Krueger, of Mendville, Pa., sends us a newspaper clipping describing a new

burner recently patented by a resident of his city and which is said to work very satisfactorily.

News Notes.

SALEM, N. C.—C. A. Hege has started into the florist business here with one greenhouse, heated by hot water.

CORUNNA, MICH.—Henry Welfare is building a greenhouse here and should be added to the directory list at this place as F.

SAN DIEGO, CAL.—The Oreutt Seed and Plant Co. are planning one of the largest collections of cacti in the United States at the terminus of a cable line here. It interests hundreds of visitors.

ARCOLA, ILL.—Percy W. Armstrong, who has been a fruit grower and market gardener here for some time has built a greenhouse 12x60 and proposes to add the florist and nursery business.

SYRACUSE, N. Y.—The annual show of spring flowers by the Central New York Horticultural Society will be held April 16 and 17. The premium list may be had on application to H. Youell, secretary, 228 Beecher street.

AUSTIN, ILL.—The greenhouses of Jos. Shaw were partially destroyed by fire the night of the 9th inst. Most of the stock for spring trade was destroyed. Loss about \$3,000, no insurance. Fire is supposed to have started from a lamp which was left on the potting bench.

BARABOO, WIS.—The damage to the greenhouses of Wm. Toole by the recent fire was not as great as reported. But one greenhouse was injured, and the contents of that house only was destroyed. His pansies, of which he makes a specialty, were in the other houses, and the injured house is now being repaired. His seed establishment is entirely separate from the plant growing outfit and was in no way injured.

GALT, ONT.—At a well attended meeting held February 10 the Galt Horticultural Society was organized with an initial membership of 112, and officers as follows: Mayor Lutz, president; John Wells, vice-president; Thomas Vair, secretary; James W. Scott, Thomas Vair, Geo. Gardner, Alex. Common and Williams, directors. The society intends holding two exhibitions, one in September and the other in November.

PITTSBURG.—Two more greenhouse fires within the last week. The greenhouses of the Hon. Judge Collier, at Sharpburg, and J. S. Bragdon, Nevil Island, were burned, the loss being total in both cases, and with no insurance. Friends of Alex. Murdoch will be pleased to learn that he is able to be about again after a severe illness of about four weeks. The statement about the club house is an error. The club will rent quarters and a club house is merely a possibility of the distant future.

SPRINGFIELD, MASS.—Horticultural Hall was packed the evening of February 6 to listen to the paper on "Out Door Flower Gardens" by Wm. Falconer, of Glen Cove, L. I. It was an able and interesting talk from beginning to end, and the large audience gave the closest attention. Mr. Falconer was elected the first honorary member of the society; which now numbers 552 members. Mr. Wm. H. Spooner, President of the Massachusetts Horticultural Society, has also been made an honorary member. Mr. C. L. Burr is president.

The Badge Business.

EDITOR AMERICAN FLORIST:—In your editorial comment on my communication in respect to "the badge business" you do me unintentionally an injustice. The impression is made that in some way I benefit by the scheme, and that I am unreasonable in not working it for the \$25 offered in 1890.

Why should I be even asked to do the work of the society's officers, as ordered by the society itself? It is true that I did, in 1889, offer to bear all the expense except postage money, in my anxiety to leave the thing accomplished, *provided* the secretary would send out the plan with the programme. This offer was positively declined. Now can anybody suggest a reason why I should do the work also in 1890 for nothing, or for one-sixth its cost, after definite action by the society ordering it done by the executive committee? True, I have at various times printed the programmes of the annual meetings without charge when the S. A. F. was young and poor, but is the treasury now not able to stand the strain of carrying out the orders of the society?

There was time enough, as my correspondence will show if necessary, to have secured the assent of the executive committee to the use of more funds in 1889. And where does this plea relieve the executive committee in 1891 from transcending its authority and definitely turning down the plan as ordered at Buffalo?

J. HORACE MCFARLAND.

Feb. 14, 1891.

[Our comment last week was this: "Chairman McFarland had in 1889 offered to do the work free; for 1890 they offered him \$25.00. This he neither positively accepted nor positively declined until very near the 1890 meeting; too near to arrange for more money to do the work."] *Wherein it conveys the impression that Mr. McFarland benefited by the scheme we fail to see, however we print his additional letter.*—Ed.]

CLEVELAND.—"C." says: "I am very sorry that I have made an error in regard to what I supposed to be reliable information. The item in regard to the marriage of Mr. Wm. Leitch and Miss Martin being emphatically denied by the young lady when congratulated by the writer, I regret exceedingly that it has happened, it being told me in the presence of others in such a way that I did not for a moment doubt its truthfulness, until contradicted by the lady interested."

CIRCULATE your spring trade lists in our EASTER NUMBER, to be issued March 19 and to contain forty pages. That number will be a beauty.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—As gardener or florist; 7 years' experience. Best of references. Address **SIDNEY LANE**, 1 Spring St., Oneonta, N. Y.

SITUATION WANTED—By a florist; aged 22 years; speaks German and English; 1 year's experience in commercial plants, State wages. **E. VOIGT**, # Bartlett St., Brooklyn, East River, N. Y.

SITUATION WANTED—By March or April, by a Dane, as gardener's assistant, private or commercial place. Good references; 7 years' experience. Address **R. F.**, care Am. Florist.

SITUATION WANTED—By a practical florist and gardener as foreman in greenhouse work, to take charge of private place; German; 12 years' experience. Good references. Address **R. E.**, care Am. Florist.

SITUATION WANTED—By a young married man as florist and gardener; private or commercial. Best of reference. Address **R. G. P.**, care H. P. Potter, 24th & Market Streets, Wilmington, Del.

SITUATION WANTED—As gardener and florist; 10 years' experience in growing tropical plants, orchids and bedding plants—4 years in last place, with all references. Address **A. BASS**, 213 E. Illinois St., Chicago.

SITUATION WANTED—As manager. Rose-growing a specialty. Also propagating, etc. Good, sound references from the most reliable sources. Firms. State salary and full particulars of plant to **M. C. care J. C. Vaughan**, box 98, Chicago.

SITUATION WANTED—By a first-class florist; 14 years' experience, good rose and general grower. Can handle fine stove and greenhouse plants, ferns, palms, orchids, etc. Good references. Address **B. A.**, care American Florist, Chicago.

SITUATION WANTED—As headgardener on private place, by Scotchman; married; aged 30; 12 years' experience in all greenhouse work. Strictly sober and reliable. Best of references. Address **THOMAS WALDIE**, 115 George St., New Haven, Conn.

SITUATION WANTED—By a florist of 5 years' experience. No private or preferred—private or public place. Good references; married man; understands all kinds of greenhouse work; also floral or party decoration. Address **FLORIST**, 38 Tracy St., Utica, N. Y.

SITUATION WANTED—Any firm desiring a first class rose grower, etc. I wish to recommend my manager as I am about to take charge of my place March 1st and am anxious to see him in a reliable position worthy of his ability. Address **CHAS. W. REIMERS**, Louisville, Ky.

SITUATION WANTED—By a first class gardener; 25 years old; single man; German; thoroughly experienced in house and greenhouse work, in roses and vegetables. Good references can be given. Address **H. B.**, care Fritz Wesp, corner Soledad and Roman Streets, San Antonio, Texas.

SITUATION WANTED—By young man, 28, in commercial or private place; understands the growing of roses, carnations, grapes, inside and out; good mushroom and vegetable grower. Salary moderate; good references from present and previous employers. State wages. **J. W.**, care James DeBow, 242 Eighth Ave., New York.

SITUATION WANTED—By March or April 1st, by a practical florist and gardener, competent in all branches, private or commercial; good grower of roses and cut flowers generally, vegetables, etc.; 30 years' experience; best of references; German. Good references. Mental salary. Address **G. A. 10**, Postoffice, Cleveland, Ohio.

WANTED—A young man with some experience as assistant. References required. Address **JOHN RECK**, Bridgeport, Conn.

WANTED—A young man with some experience in greenhouse work, etc. Address **B.**, care American Florist, Chicago.

WANTED—An industrious young florist with good knowledge of general greenhouse work. Address **Box 10**, care American Florist, Chicago.

WANTED—A young man for store, experienced in cut flower and design work. Address, giving references. **W. G.**, care American Florist.

WANTED—An energetic, competent florist to grow general stock for commercial place. Salary moderate. Address **Box 20**, care Am. Florist.

WANTED—Bookkeeper and correspondent, one who is experienced in seed and plant business. Give references. **Lock box 1018**, Philadelphia, Pa.

WANTED—An able, working gardener, to take charge of vegetable trial grounds. Must have experience in growing all kinds as well as keeping records. Address **HENRY A. DREER**, Philadelphia, Pa.

WANTED—Industrious young man with some experience in greenhouse work as assistant in market gardening and plant growing business—German preferred. State wages expected. Address **RUDOLPH GUYER**, Ft. Wayne, Ind.

WANTED—By middle of March, German, married man to take charge of cut flower department in commercial place, to grow for Boston market. Must be good rose grower. Permanent place for good man. Address, giving experience, references, age and wages expected, **ROSE GROWER**, care American Florist.

WANTED—In country; married; one that has had experience in gardening with good departmental foreman. Good recommendations required. Wages: \$65 per month with house. Also wanted young man; must be a first class plantman. Wages: \$35 per month with board. Apply to **A. FORKUS**, 11 Supt. Riverside Cemetery, Denver, Colo.

FOR SALE.

Five greenhouses in town of 6100, good shipping facilities, railroads leading in six directions. One of the best openings for a live, capable man. Property free from all incumbrances. Sufficient capital required, good security for balance.

X Y Z, care American Florist, Chicago.

Florists Take Notice FOR RENT.

A square of ground fronting on Market street, Philadelphia, Pa., 500 x 214, to Ludlow street. A very desirable location for a florist. Apply to

THE REAL ESTATE INVESTMENT CO., 721 Walnut St., Philadelphia, Pa.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,

NEW ROCHELLE, N. Y.

New and
Rare Plants

ORCHIDS,

Hardy

PALMS,

Plants.

FERNS.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

NEW AND RARE PLANTS, ORCHIDS, ETC.

A large collection of Hothouse and Greenhouse plants, carefully grown, at low rates. ORCHIDS—A very extensive stock. East Indian, Mexican, Central and South American, etc. HARDY PERENNIALS, ROSES, CLEMATIS, PEONIES, PHLOXES, ETC. NEW AND STANDARD FRUIT, RARE AND BEAUTIFUL TREES, SHRUBS, EVERGREENS, ETC.

For Catalogue on application.

JOHN SAUL, Washington, D. C.

PALMS AND DRACAENAS.

Largest stock in the West. Over fifty varieties of PALMS at 5 cts. to \$10 00 each.

CYCAS REVOLUTA, 50 cts. to \$15 00 each. DRACAENA INDIVISA, AUSTRALIS and TERMINALIS, 5 cts. to 15 cts. each.

CACTUS, ALOES, AGAVES and YUCCAS.

For send for price list.

W. J. HESSER, Plattsburgh, Neb.

ORCHIDS.

Established and Fresh Imported plants, mostly useful for Cut Flowers, at very low prices.

Write for our Price List.

FREDERICK MAU, SOUTH ORANGE, N. J.

ORCHIDS.

PLANTS AND FLOWERS.

Cheap as Good Roses

A trial order will prove it.

BRACKENRIDGE & CO.

Established 1854. Govanstown, Md.

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NAR-

CISSUS, SPIRÆA, LILIES

OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale Importers should write us for prices.

Our new Bulb Catalogue is now ready. Will be mailed free on application.

J. A. DE VEER,

18 Burling Slip, - NEW YORK,

Importer and Dealer in

BULBS, SEEDS, PLANTS

and Florists' Supplies.

Agent for Foreign Houses. Catalogues free to the trade.

NOTICE.

Would Wm. Mc L. D. please

communicate with his brother.

LOCK BOX 725,

NATICK, MASS.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, to Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times 5, 5 per cent; 13 times, 10 per cent;
20 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for those who desire to place their advertisements in the issue for the following Thursday. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

EXHIBITIONS.

We have of late received numerous requests for information regarding the work of preparing for an exhibition, especially of chrysanthemums. These we have answered as fully as we could by mail, but as the number of inquirers seems to increase rather than diminish, and as the last inquiry is so comprehensive, we present it to our readers believing that some hints upon even the minor details of exhibition management will be acceptable to a large number. We trust that some of our readers will endeavor to give the desired information. Here is the inquiry:

"Will you favor me with a programme of some of your leading chrysanthemum shows, together with the plan of getting them up, charges, etc., the probable expenses, list of premiums, gate fees, fee, if any, for entry for exhibition. The florists think of getting up a show for next fall and we don't know how to begin."

ADVERTISERS of doubtful reputation can not gain admission to the columns of the FLORIST. Weedit our advertising columns as well as the rest of the paper, and exclude any regarding whose methods of doing business there is any question. And further, when any complaint regarding the methods of any of our advertisers is received we at once investigate the same, and if there is a suspicion of fraud that advertiser is promptly excluded from our columns. We do this not only to protect our readers, but in justice to our other advertisers. We have done a great deal of work and incurred some little expense in getting certain ones "located," but we are here to look after and advance the best interests of the whole trade, and we propose to do it.

SIERRECIT & WADLEY's fifth annual orchid exhibition will be held this year at the Madison Square Garden, New York, the Eden Musee being found too small for the increasing number of exhibits. It is proposed to add other seasonable flowers this year and make a feature of new, rare and valuable plants, and an invitation is issued to any one having new varieties of any other plants, as well as orchids, to show them at this exhibition. As the press reports of these shows are always very liberal exhibitors of novelties will undoubtedly receive considerable advertising. Space may be reserved on application to Chas. W. Lee, secretary, Madison Square Garden, New York.

A COPY of "The Rosarian's Year Book" for 1891 has been received. It is edited by the Rev. H. Honeywood D'Omarin, Hon. Sec. of the National Rose Society of England, and published by Benmore & Sons, London. The frontispiece is a pho-

tograph of Mr. George Dickson, a well known grower of the rose, and there are numerous timely chapters upon the rose by various authorities, including one upon preparing roses for exhibition, and concluding with meteorological observations taken during the rose year ending July 31, 1890.

WHEN YOU fail to get your copy of the FLORIST promptly and find that other florists in your city got their copy on time, you may know that there is something wrong in your local delivery or postoffice. The copies for each city are all mailed together wrapped in one bundle, and if one reaches that postoffice then all reach it at the same time, and if any are lost before they reach your postoffice then all are lost. Except in the largest cities where so many copies go that several bundles are necessary.

SOME very fair blooms of Chrysanthemums Mrs. Frank Thompson, Lillian B. Bird, Robt. Crawford, Mt. of Snow and Mrs. Langtry are sent us by Mr. H. L. Phelps, Springfield, Ill., who writes: "While I do not consider these extra fine specimens, yet for a second crop think they are pretty good. Have been able to cut four chrysanthemum flowers right along. Would especially recommend Mt. of Snow as a good late and continuous bloomer. If kept growing all side branches produce good blooms."

WE HAVE received from Mr. George Hancock, Grand Haven, Mich., a dozen blooms of a carnation labelled "Nellie Lewis," and they do seem to be identical with the variety of which blooms were sent us by Mr. Vick and which we recently noted in these columns. Mr. Hancock's flowers reached us in much better condition than those sent by Mr. Vick, and they make a rather more favorable showing for the variety.

A CHICAGO florist has a wagon very effectively arranged for the delivery of blooming plants in cold weather. The rear of the wagon is occupied by a miniature greenhouse with a door at the end. It is at once an instant attempt, filled as it generally is with geraniums and similar plants in brilliant bloom. Of course there is glass in the sides as well as in the roof.

IN OUR rose department appears a record of Woottons cut during a given period from a stated number of plants. Regarding the quality of the blooms, competent judges who saw those shown by Mr. Dale at the meeting of the Executive Committee at Toronto say they were most excellent, some almost equal to American Beauties.

AN EASTERN florist placed a lamp in his wagon to keep frost out while carrying plants to a residence where he was to arrange a decoration, but on the way it tipped over and set the wagon on fire. The wagon was sadly damaged and the plants ruined before the fire could be subdued.

PRINT your spring trade list in our double Easter number, to be issued March 19, and send copy early, not later than March 14, and as much earlier as you can. This number will go to every name in the American trade, and 500 extra copies to the best firms in Europe.

WHEN WRITING to advertisers, please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

ELABORATE preparations are being made for the coming exhibition of the New York Florist Club to be held April 7. Premium lists may be had and space reserved on application to John Young, secretary, 53 West 30th street.

A BLOOM of rose The Bride, which is fully expanded, very double and measures fully five inches across has been received from Mr. A. Hallett, Fayette Springs, Pa. It is a massive bloom.

YOU CAN NOT afford to take any chances on your spring advertising. The only way to reach the WHOLE TRADE is through the AMERICAN FLORIST.

MR. JOHN YOUNG has been elected secretary of the New York Florist Club to fill the vacancy caused by the resignation of Mr. W. S. Allen.

Catalogues Received.

Dingee & Conrad Co., West Grove, Pa., new roses; The Steele Bros. Co., Toronto, Ont., seeds; John N. Mast, Summit, N. J., trade list roses; A. M. & J. B. Murdoch, Pittsburg, Pa., plants, seeds and nursery stock; Reed & Keller, New York, wire designs for florists; O. M. Richardson & Co., Canton, Me., plants and seeds; McMath Bros., Olney, Va., seeds and berry plants; H. Perlich, Baltimore, Md., the Excelsior fumigator; Bush & Son and Meissner, Bushberg, Mo., grape vines; Cold Spring Seed Farm, Big Horn City, Wyoming, seeds and berry plants; Benj. Hammond, Fishkill-on-Hudson, N. Y., insecticides.

Remittances.

Will you be kind enough to say a word in the FLORIST sometime against what appears to be a growing evil, namely the sending of personal checks in payment of accounts, or on orders, etc. I have received a number already this spring. They cost 25 cents to collect, besides the annoyance. I know you favor square dealing, and think this is hardly that, on small amounts.

[As our correspondent says, it is a decided annoyance to receive a check on a bank in some place hundreds of miles away for a small amount. And it is certainly unjust to subject the payee to a tax of 25 cents on a payment of a few dollars only. Where such checks are sent it is no more than right that the sender add 25 cents to the amount of the check to pay the bank's charge for collecting.—Ed.]

Cypripedium Curtisii.

This species until quite recently was rarely met with except in very select collections. Its native home has since been rediscovered and we now find it grown much more extensively, and universally admired; it still occupies the front rank among this fascinating genus of plants. It is far more beautiful than many hybrids, however expensive. Like the majority of cypripediums it is easily cultivated and produces its large blossoms freely. It thrives well in a temperature of 65° to 70° during the summer months with a gradual decrease from 60° to 65° as winter approaches. Fibrous peat and clean sphagnum moss in equal proportions proves a good compost. A. DIMMOCK.

Summit, N. J.

CONSIGNMENTS OF SMILAX, CALLAS and ADIANTUMS WANTED.
THE WISCONSIN FLOWER EXCHANGE,
135 MARION STREET, MILWAUKEE, WIS.

E. H. HUNT,
WHOLESALE FLORIST
 79 Lake Street, CHICAGO.
 (Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
 Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
WHOLESALE FLORISTS,
 27 Washington Street, CHICAGO.
 All Cut Flowers in season. Orders promptly shipped.
 Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. #2 WIRE WORK A SPECIALTY.

C. H. FISK,
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.

GRESENZ & HARMS,
 (Successors to FRESE & GRESSENZ.)
Wholesale Dealers in
CUT FLOWERS,
And Florists' Supplies.
89 Wabash Ave., CHICAGO.
 Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese,
Wholesale Cut Flowers,
66 Wabash Ave., CHICAGO.
 All Flowers in season. Prompt attention
 given to shipping orders.

LaRoche & Stahl,
Florists and Commission Merchants
 —OF—
CUT FLOWERS,
 1237 Chestnut Street, — PHILADELPHIA.
 Consignments Solicited. Special attention paid to
 shipping. Mention AMERICAN FLORIST.

C. E. & S. S. PENNOCK,
WHOLESALE FLORISTS,
 38 S. 16th Street, Philadelphia, Pa.

JOHN M. HUDSON,
 —WHOLESALE—
Commission Dealer in Cut Flowers,
1225 Market St., ST. LOUIS, MO.
 Quick sales and prompt returns guar-
 eed. Consignments solicited.

ELLISON & KUEHN,
 —WHOLESALE—
FLORISTS,
 1122 PINE STREET,
ST. LOUIS, MO.

CUT FLOWERS.
 The choicest Cut Flowers, of our own growing,
 at lowest market rates, shipped C. O. D. Use A.
 F. Code when ordering by telegraph. Telephone
 connections. For prices, etc., address
J. L. DILLON, BLOOMSBURG, PA.

Wholesale Markets.

Cut Flowers.

BOSTON, Feb. 18.	
Roses, Bon Silences.....	\$3.00 @ \$4.00
" Niphetos.....	4.00 @ 5.00
" Woottons, Waterlilies.....	5.00 @ 7.00
" Perles, Sunsets.....	5.00 @ 8.00
" Marmets, Brides.....	10.00 @ 12.00
" Woottons, Waterlilies.....	10.00 @ 12.00
" La France.....	12.00 @ 15.00
" Jacops, Cones.....	10.00 @ 12.00
Carnations, short.....	1.00 @ 1.50
Carnations, long.....	2.00 @ 3.00
Violets, parishes.....	.75 @ 1.00
Valley, Romans.....	4.00
Pink White Narcissus.....	3.00 @ 4.00
Tulips, daffodils.....	4.00
Asparagus plumos.....	5.00
Heath.....	4.00
Adiantums.....	1.50
Smilax.....	17.00
Callas.....	3.00 @ 10.00
Harrill.....	10.00 @ 15.00
Azaleas.....	1.00 @ 1.50
Mignonette.....	5.00 @ 6.00
Camellias.....	5.00
Nasturtiums.....	1.00
Muscus.....	2.00

PHILADELPHIA, Feb. 18.	
Roses, Beauties.....	25.00 @ 30.00
" Bruners.....	50.00 @ 75.00
" La France, Albany.....	10.00
" Lains.....	50.00 @ 60.00
" Marmets, Brides.....	8.00 @ 10.00
" Perles, Niphetos, Gontiers.....	5.00
" Cousins, Hostes, Waterlilies.....	6.00 @ 8.00
Valley, tulips.....	5.00
Beddolls.....	4.00 @ 6.00
Carnations, long.....	1.50
Carnations, short.....	20.00
Smilax.....	20.00
Adiantums.....	1.00

NEW YORK, Feb. 18.	
Roses, Perles, Gontiers.....	\$3.00 @ \$5.00
" Bon Silence.....	2.00 @ 3.00
" Niphetos, Soures.....	4.00 @ 5.00
" Marmets, Brides.....	5.00 @ 8.00
" Hostes.....	5.00 @ 6.00
" Woottons, Cousins.....	5.00 @ 8.00
" La France, Albany.....	10.00 @ 15.00
" Ann Beauty.....	10.00 @ 15.00
" Magnas.....	15.00 @ 20.00
" Laurets, Lains.....	10.00 @ 15.00
" Woottons.....	3.00 @ 5.00
" Jacops.....	15.00 @ 20.00
Carnations.....	1.00 @ 2.00
Valley, Romans.....	2.00 @ 3.00
Violets.....	1.00 @ 1.25
Smilax.....	15.00 @ 20.00
Beddolls.....	2.00 @ 5.00

CHICAGO, Feb. 18.	
Roses, Bon Silences.....	2.00 @ 3.00
" Perles, Niphetos.....	4.00 @ 5.00
" Marmets, Brides.....	5.00 @ 8.00
" Beauties.....	5.00 @ 10.00
" Gontiers.....	4.00 @ 5.00
" Bennetts, Woottons.....	5.00 @ 8.00
" La France.....	10.00 @ 15.00
Carnations, short.....	1.00 @ 1.50
Carnations, long.....	2.00 @ 3.00
Carnations, long, fancy.....	2.00 @ 3.00
Valley.....	4.00 @ 5.00
Tulips.....	4.00 @ 6.00
Roman hyacinths, narcissus.....	3.00 @ 4.00
Smilax.....	1.00 @ 1.25
Adiantums.....	1.00 @ 1.25
Callas.....	10.00 @ 15.00
Harrill.....	10.00 @ 15.00

WM. J. STEWART,
Cut Flowers & Florists' Supplies
 —WHOLESALE—
 67 Bromfield Street, BOSTON, MASS.

GEO. MULLEN,
WHOLESALE FLORIST.
 Florists' Supplies Always in Stock.
 17 CHAPMAN PLACE,
 (Off School St., near Parker House),
BOSTON, MASS.
 Orders by Mail, Telegraph, Telephone or Express
 promptly filled.

WELCH BROS.
WHOLESALE FLORISTS
 165 Tremont St., BOSTON, MASS.
 We make a specialty of shipping choice Roses and
 other Flowers carefully packed, to all points in
 Western and Middle States. Return Telegrams are
 sent immediately when it is impossible to fill order.

CUT FLOWERS.
 The Western Trade Solicited.
 Write or Telegraph.
SMITH FLORAL CO.,
 77 7th Street S. - Minneapolis, Minn.

THOS. YOUNG, JR.,
WHOLESALE FLORIST
 20 West 24th Street,
NEW YORK.

LILY OF THE VALLEY,
 And the Choicest ROSES for the
 fall and winter season.

W. S. ALLEN,
Wholesale Dealer in Cut Flowers
 36 EAST 23rd STREET, NEW YORK.
 [ESTABLISHED 1877.]
 Price List sent upon application.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
No. 32 W. 30TH ST., NEW YORK.
 Orders to be shipped will receive prompt attention.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
 51 West 30th St., NEW YORK.

W. A. JURGENS,
WHOLESALE FLORIST
 27 Union Square, NEW YORK.

JOHN YOUNG,
WHOLESALE FLORIST
 53 WEST 30TH STREET,
NEW YORK.

A. S. Burns. J. I. Raynor.
BURNS & RAYNOR,
WHOLESALE FLORISTS,
 11 West 28th St.,
NEW YORK.

J. M. McCULLOUGH'S SONS,
 Wholesale Commission Dealers in
CUT FLOWERS
 134 & 136 Walnut Street, CINCINNATI, O.
 SPECIALTIES:
ROSES, CARNATIONS AND ORCHIDS.

N. F. MCCARTHY & CO.
Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,
 1 Music Hall Place, BOSTON, MASS.
 Also entrance from Hamilton Place
 through Music Hall.
 We keep a large supply of Fancies and Carna-
 tions always on hand. Return telegrams sent
 immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.
 Mention American Florist.

☞ The Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

Results of the Prize Seed Advertising Contest.

PHILADELPHIA, Feb. 9, 1891.

EDITOR OF AMERICAN FLORIST.—In competition for the cash prize of \$50 offered "for the advertisement best calculated to bring trade to us," as per announcement in the AMERICAN FLORIST of December 24, 1890, we received up to and including Monday, February 2, when the competition closed, 689 advertisements from 247 separate competitors, a most unexpected number. Since then we have received several others, which, arriving too late, were not entitled to enter the competition.

You can imagine that it was no easy matter to examine all these designs and award the prizes. We enclose you herewith proofs of the prize advertisements; the first prize, for the advertisement headed "Only Good Seeds Bring Forth Good Crops," followed by "Burpee's Seeds" in large type, was designed and set up by Messrs. Johnston & Nelson, 10 Spruce street, New York, to whom we have remitted our check for \$50. You will probably agree with us that while this advertisement is not calculated to bring direct sales in anything like the proportion of one of the second-prize advertisements, entitled "Pansy Seeds Free," of which we also enclose you proof, and of which we will speak further on, yet it cannot fail to leave a good impression upon the reader of the fact that, we have seeds for every purpose, and that we have absolute confidence in the unsurpassed quality of our seeds.

As we have stated in a previous article, and would here reiterate, our opinion is that the most important point in advertising is to create a favorable impression upon the public, rather than to aim for direct returns. In our offer we promised to give \$25 as a second prize should we receive a second advertisement that was particularly good; we duplicated this offer, and mailed a check for \$25 both to Mr. Wylie B. Jones, of Burlington, Vt., and also to Mr. Charles M. Snyder, of this city. We enclose proof of both these advertisements, and have also expressed to you electrotypes of the three. You will please insert in your advertising columns the same week as the appearance of this article the first prize advertisement, the week following the second prize advertisement of Mr. Jones, headed "Rarest and Finest Novelties," with illustration of pansy, and the week following the advertisement of Mr. Snyder, entitled "A Wide Awake Man."

Your readers will notice that Mr. Jones' advertisement, while headed "Rarest and Finest Novelties," brings out in bold type "Pansy Seeds Free." The advertisement embraces the same offer as that already extensively used by us, but instead of offering five packets for twenty-five cents, it offers four packets and a packet of Imperial Prize Pansy seed free. Mr. Jones in his accompanying letter argues that on the well known weakness of human nature to get something for nothing this advertisement, while identically the same offer as otherwise expressed by us, will probably draw one-third more returns. We

have already ordered its insertion in some papers in which our previous advertisement has appeared, and can tell later as to the soundness of his judgment. There is another feature of this advertisement that we think is most admirable, that is that the curiosity and interest of the reader is secured by the opening paragraph, which he must necessarily read through to arrive at its sense. Furthermore, the composition and display is most admirable and has been set up in Philadelphia only slightly different from the original setting in Burlington, Vt.

Altogether unique in the list of seed advertisements is the one entitled "A Wide Awake Man," which secured a prize of \$25 for Mr. Snyder. Although occupying only five inches double column, yet with the illustration of the wide awake man and the open appearance it cannot fail to attract attention even upon the most crowded advertising pages. As a rule we do not believe in comic illustrations, but this advertisement in securing the attention of the reader so far as to read through the opening paragraph will probably prove sufficiently interesting to insure its complete perusal. The closing expressions of the first and second sentences are also capital—"A farmer can plow, harrow and take all manner of pains in his work with some enthusiasm if he knows that he is tickling the earth to make really good seed laugh into harvest." "This for an introduction; may the acquaintanceship ripen."

It will be noticed in all these advertisements the type is of good size, not crowded, but open in appearance. We are inclined to believe that heretofore, in common with nearly all other seedsmen, we have erred in crowding too much matter into our advertisements.

Besides the prizes awarded above in compliance with our offer of a payment of \$5 each for any other sufficiently attractive advertisement to be retained by us, both Mr. Jones and Mr. Snyder received \$5 each and Messrs. Johnston & Nelson \$10, while \$10 each (for two advertisements) was awarded to Mr. H. D. A. Taunton, Mass.; Julius Wilcox, Brooklyn, N. Y.; and C. De Vos, Battle Creek, Mich. We have also sent "honorariums" of \$5 to all of the following for advertisements retained by us: J. F. Foster, Buffalo, N. Y.; Jno. V. Redpath, 33 Warren street, Boston, Mass.; W. E. Philbrick, Lawrence, Mass.; H. C. Brearley, Detroit, Mich.; H. C. Rose, South Bend, Ind.; A. C. Graw, Camden, N. J.; Jno. W. Barwell, Chicago, Ill.; F. E. Moynahan, Danvers, Mass.; G. McPherson, Pittsburgh, Pa.; C. F. Cooley, St. Louis, Mo.; A. H. Hitchcock, 195 Washington street, Chicago, Ill.; A. V. Isakovis, 328 E. 123rd street, New York, N. Y.; Margaret Lee, Mitchell, Ind.; Arthur W. Robinson, 337 E. 36th street, New York; J. J. Terry, 79 Milk street, Boston, Mass.; M. H. Robinson, Atlanta, Ga.; S. Swaine, Rochester, N. Y.; S. M. Pettengill, 38 Park Row, New York; G. L. Great, Chicago, Ill.; M. D. MacDonald, Cleveland, Ohio; Miss Kate E. Griswold, Hartford, Conn.; T. C. Coffman, Dayton, Ohio.

Some of these advertisements for which we have paid \$5 are most excellent and will be used by us with very slight changes, while others contain one or two ideas that will be useful to embody in an advertisement.

If time permits we will in the near future endeavor to bring out some of the ideas suggested by the contestants named, meanwhile we would call attention to the fact that we received from one competitor an advertisement headed as follows:

"Good seeds in good ground yield good crops; we supply the seeds, you gather the crops."

This advertisement arrived some weeks since and the very taking catch phrase has been ringing in our mind ever since; unfortunately it was filed away so carefully that we are unable to find it and get the name of the sender. If he will kindly advise us of his address we will immediately forward our check for \$5 in acknowledgement of same.

W. ATLEE BURPEE.

REPORTS from 13 different seedsmen in the catalogue trade indicate an increase in the mail business to date from 30 to 100 per cent over last year. The cause of this they are not agreed on. Some attribute it to the mild weather of the apparently advanced season; others to draughts last season, which prevented saving of seeds; still others to the natural increase which the systematic conduct of their affairs naturally entitles them to. We suppose they are all right.

COMPLAINTS reach us that Canadian customers of American seedsmen are compelled to pay from 5 to 10 cents duty on the seed catalogues sent there through the mail. Customers complain both of the "Bill McKinley" and their own customs regulations.

THE Eastern Nurserymen's Association, under date of January 30, agitates the question of reduction of letter postage to one cent, and have resolved that their organization is in favor of such reduction.

MR. BEN SALZER, of John A. Salzer Seed Co., has decided to locate in Denver for his business. He will probably devote himself to the lumber business in that city.

Cost of Water Supply.

In the FLORIST of January 29 Mr. R. E. Shuplett asks some questions about cost of water supply. As no one replied I will give my experience. I take my supply from city water works. Used to pay \$25 per year, then they raised the price to \$50, so I put in a meter, for which I had to pay about \$16. Used the first year \$26.25 worth, at the exorbitant price of 50 cents per thousand gallons, averaging about \$3.70 for each one thousand feet of glass per year. The rate is the highest their rules allow, and is about four times as much as other cities ask. The supply is from the river. Water companies, as a rule, seem to think that florists must consume immense quantities of water, while in fact I often see more run to waste on a private lawn than I use. D. P. SMITH.

Flint, Mich.

Ice Boxes.

It would no doubt interest a great many readers if somebody would explain how a cheap ice box may be constructed, say for a place where about 200 buds are cut daily. As a matter of course they accumulate sometimes, so the box ought to be large enough to contain about 1,000 roses.

Is it best to have the ice above the flowers, and can the box be made into partitions, so in case the whole space is not needed one part may be shut off? D.

MARCH, 1911 we shall issue a 40-page number, which will be most beautifully illustrated and will contain a number of special features which will make it of unusual value.

USE FERRY'S SEEDS

BECAUSE THEY ARE
THE BEST.
D. M. FERRY & Co's
Illustrated, Descriptive and Priced
SEED ANNUAL
For 1891 will be mailed FREE
to all applicants, and to last season's
customers. It is better than ever.
Every person using Garden,
Flower or Field Seeds,
should send for it.
D. M. FERRY & CO.
DETROIT, MICH.
Largest Seedsmen in the world

NOTICE.

I desire to state to my friends that I have no further connection with the firm of A. D. COWAN & Co., Seedsmen, 114 Chambers Street, New York City.

Communications will reach me addressed care of THOS W. WEATHERED'S SONS, 48 Marion Street, New York.

A. D. COWAN.

FLOWER SEED.

CHOICEST STRAINS FOR FLORISTS.

1891 trade list now ready, and mailed free on application.

AUGUST RÖLKER & SONS,
136 West 24th Street,
NEW YORK, STATION E.

OUR BUSINESS, SEEDSMEN.

Our Specialty.

SELECTED STRAINS FOR FLORISTS

Trade List on Application.

SCHLEGEL & FÖTLER, Boston, Mass.

ONION SEED.

WHITE SPANISH (sulphur yellow), **STRAW-COLORED** and **STRASSBURGH**.

All of my own growth from selected bulb. Prices on application.

HENRY METTE, Seed Grower and Merchant,
1787. QUEDLINBURG, GERMANY.
Mention American Florist.

G. J. MOFFATT,

Manufacturer of

SEED BAGS ENVELOPES OF ALL KINDS.

Printing a Specialty.

NEW HAVEN, CONN.

Sample and price on application. Write for prices, please state sizes and quantity wanted.
Mention American Florist.

TO THE TRADE.

We have a Large and Good Stock of

Dracæna Indivisa & Latania Borbonica.

Also a general assortment of spring stock.

Wholesale Catalogue issued February 15th, sent free on application, or write us and we will quote price. P. O. Address

ASTORIA NURSERIES,

ASTORIA, Long Island City, N. Y.

Write to us before buying elsewhere.

FREE BY MAIL.

Rooted runners of M. L. Violets, strong and healthy at 75c. per 100. Three kinds of Alternanthera, at 75c. per 100. Acanthum Black Douglas and White (cap at 6c. per 100. 15 varieties of Coleus, at 75c. per 100. Mermet roses well rooted, at \$1.25 per 100.

J. J. LAMPERT, Xenia, Ohio.

Only Good Seeds Bring Forth Good Crops.

BURPEE'S SEEDS

ARE THE BEST AND CHEAPEST.

SEEDS for the Garden, Farm and Field.

SEEDS that will Yield Abundant Crops.

SEEDS to Sow that will Surely Grow.

SEEDS for the Flower Plot or Window Box.

SEEDS for the North, South, East and West.

Burpee's Seeds are the Best.

To Paint the Lily

Would be the mere mention by us of the excellent quality of our Farm, Garden and Flower Seeds to those who have used them. They know they are the best, and to speak of their real merits is like

Gilding Gold.

To those who have never used our Seeds we say: "Try them." A trial will be a much better advertisement for us than we can pen.

Once a customer, a customer always.

The Popularity of our Seeds increase year by year, and we deal direct with more Planters than any other Seed House in the world. In the busy season we receive daily from 1,000 to 5,000 letters and postal cards.

Six Choice Novelties. *Burpee's Red Elm Pepper, New Golden Self-Blanching Celery, Vandergrae Cabbage, Burpee's Hardy-Head Lettuce, The Delaware Watermelon, and The Mottched Tomato.*—One full-size packet of each, with plain directions for culture, will be mailed to any address on receipt of 25c., or any three of these **Choicest New Vegetables for 16c.** (8 two-cent stamps). Our Farm Annual for 1891 will be mailed free to all favoring us with an order. All our Seeds are warranted. Write us to-day.

BURPEE'S FARM ANNUAL for 1891.

With Colored Plates Painted from Nature, 166 pages. Free. Full of hints to those who know, and valuable information for those who want to know about Farm, Garden and Flower Seeds, Plants, Shrubs, Lilies, Gladioli and other Summer-Flowering Bulbs. **Rare Novelties** are described, many of which can only be had direct from us. It tells how to get valuable premiums, including Mrs. Rorer's New Book, just out—Free. Write to us at once and secure free this valuable Farm Annual. Write to-day.

Name this paper and address

W. ATLEE BURPEE & CO., Philadelphia, Pa.



Vegetable Seeds for Market Gardeners.

Flower Seeds and Bulbs for Florists.

Our reputation among the critical Market Gardeners of this country, for having varieties and strains specially adapted to their wants, is second to none.

Our new Florists' and Market Gardeners' **WHOLESALE PRICE LIST** is the best and most complete list of its kind ever sent out. Write for it on your printed letter-head or enclose business card to show you are entitled to it. Our Horticultural and Poultry Supply Circulars are complete and can be had for the asking.

JOHNSON & STOKES, SEEDSMEN,

217 and 219 Market Street, PHILADELPHIA, PA.

Mention American Florist.

Z. DE FOREST & Co., WHOLESALE

Seed Merchants and Growers. IMPORTERS OF Bulbs for Florists.

Our specialty is the **JOBBER TRADE**. Write for prices, which are always favorable, we can help you increase your trade.

1301 and 1303 Market Street,

PHILADELPHIA, PA.

MY NEW SPECIAL OFFER OF EXTRA CHOICE FLOWER SEEDS

is now published and may be had on application.

FRED. ROEMER, SEED GROWER
Quedlinburg, Germany.

ROOTED CUTTINGS.

	Per 100	Per 1000
Pansies, seedlings.....	\$.50	\$ 3.00
Heliotrope and Ageratum.....	.75	
Coleus Golden Buzzer, etc.....	.50	7.50
Carnation, Hime, etc.....	.75	7.50
Geraniums, double and single named.....	1.25	10.00
Chrysanthemum, double and single.....	1.00	7.50

JOHN J. CONNELLY, Bryn Mawr, Pa.

Philadelphia.

If the business for the first days of Lent is any criterion, the sackcloth dealers will have very little to do. Trade has been lively and promises to continue so, while good flowers have actually been scarce. Small roses and good hybrids are in great demand, as all the crops seem to be off at one time. Snailax and asparagus is nearly all cut out. Carnations are plentiful except Wilders, and are selling very well. The Wilder is always in demand. Many new varieties have been brought out that next year would "knock" this beautiful carnation, but it is still the queen of pinks.

Mermets, LaFrance, Brides and Hostes are now bringing \$8 to \$12, Cusins and Watteville's 8 to 10, Perles and Gontiers 5, Laings and Luizets 35 to 50, Brunners 75, carnations 1.50 for all but Wilders, which bring 2, valley and hyacinths 3 to 5, tulips 4 to 5.

A great many tulips are sold here in flats or small boxes which hold about fifty plants. The florist is able to make a show with these boxes, and cuts the flowers off as he wants them. Mr. Wm. K. Harris supplies most of the trade. He has been very successful in growing tulips and has the field almost entirely to himself. He also makes a specialty of azaleas, and has a fine stock of window plants all through the season.

The Evans rose nurseries are about putting up additional houses for palms and ornamental foliage plants; roses and orchids have been their specialties heretofore. Palms can now be said to be fairly plentiful with the supply equal to the demand.

The club house is a popular place of resort, and the bowling alleys are well patronized. Scores are now up to 224 and 240, made by Messrs. Lonsdale and Kirt. A number of matches have taken place and the team that bowled at Boston has been bowled out of existence. O.

IF YOU HAVE anything to sell to florists don't fail to advertise it in our special Easter number of forty pages, elegantly illustrated, and with a number of other special features. No increase in advertising rates.

SPECIAL OFFER FOR CASH, TO MAKE ROOM.

KENTIA, Bel and Post, 3 ft. high, 4 to 5 character leaves.....	\$ 3.00
" Bel and Post, specimens, 3½ feet high, 5 to 6 character leaves.....	5.00
" Bel and Post, 2½ to 3 ft. high, 3 to 4 character leaves.....	2.00
" Bel and Post, 2 to 2½ ft. high, 3 to 4 character leaves.....	1.50
Aspidistra variegata, 5 to 6 leaves.....	.75
Pandanus Veitchii, fine plants, 18 to 20 in. high.....	1.50
Cocos Weddelliana, 2 feet high.....	1.50

All the above grown cool and in fine condition for immediate use.

AZALEAS in best varieties, plants 15 inches in diameter, well set with buds.

E. W. WEIMAR, M.L. Vernon, N. Y.

Order now for Spring Trade
JAPAN MAPLES, MAGNOLIAS,
Double-flowering Pines,
Tree and Herbaceous Pæonies, Iris,
etc. All hardy East.
NOVELTY, MINIATURE PINES AND CONIFERS FROM JAPAN. Catalogue free.
H. H. BERGER & CO.,
P. O. Box 1501, SAN FRANCISCO, CAL.

DOUBLE WHITE PRIMROSE PLANTS.
Fine, large, healthy plants, from 3, 4 and 5-in. pots, at \$10, \$15 and \$20 per 100.
Dracena indivisa, from 2, 3 and 4-inch pots, at \$4, \$8 and \$12 per 100, strong stock.
Palm Brahea Filamentosa, 4-in. pots, \$12 per 100.
Also Single Primrose, Calceolarias racosa, Callas, all sizes; Snailax, Echeverias, Alternantheras, etc. Also the new and leading varieties of Coleus, Begonias, Chrysanthemums, Roses, Violets and other stock. Write for price list.
HENRY SMITH, 130 Monroe St., Grand Rapids, Mich.

ROSES.

WABAN, SOUV. DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other NEW and Standard varieties of Teas; also all the best varieties both new and old of the Hybrid Remontants including the variety which

MR. JULIUS ROEHRER

has forced so successfully for the past three years, and which has proven itself by the best variety of this class for very early forcing yet introduced, also all the best varieties of

HYBRID TEAS, CHINAS, AND BOURBONS,

For Forcing, Bedding, etc., etc. All of which I now have an EXTRA fine stock at prices as low as any one can produce such stock for.

MY NEW TRADE LIST in now ready and will be mailed to all applicants.

JOHN N. MAY, Summit, N. J.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES. THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices Now Ready.

ROSES FOR FLORISTS.

OVER THREE HUNDRED AND FIFTY VARIETIES ON SALE. Ready for Immediate Delivery.

We offer the largest and most complete stock of Roses in this country. Straight 2½-inch plants, propagated from well matured field grown plants, and grown in ordinary soil without manure or any stimulating material whatever.

Our Roses Resist Disease, Start Quickly, Grow Rapidly and Always give Best Results.

All the Newest and Choicest Roses for Sale and Bloom. The famous New American Pedigree Roses—Henry M. Stanley, Pearl Rivers, Mrs. Jessie Fremont, Maud Little and Golden Gate. If you want to buy Roses send your lists and have them priced. Prices low, according to value of varieties and size and character of order.

The New White Chinese Wisteria, the finest of all. New Chinese Double Purple Wisteria, very rare. Wistaria Sinensis, Magnifica and Prutescens. Fine Hardy Shrubbery, all varieties, cheaper and better than imported.

Harry E. Weidner, Ada Spaulding, V. H. Hallcock, Louis Roehmer, Mrs. Alpheus Hardy, Nymphes and 100 other newest and best vars. for all purposes. New Chrysanthemums. HARRY E. WEIDNER, NEW MOON FLOWERS, etc. Wholesale Price Lists FREE to Florists, Market Gardeners and Dealers only.

Address

THE DINGEE & CONARD CO., WEST GROVE, PA.

MY SPECIALTIES ARE THE ROSES

MME. CUSIN AND Mme. de Watteville, for which the SUNNYWOODS GREENHOUSES have become famous.

I will have a limited number of plants of the finest stock grown of the above varieties; all strong plants, from 2½ to 3½ in. high, \$10 per 100.
Also THE BRIDE and C. MERMET at \$50.00 per 1000, and the AMERICAN BEAUTY at \$90.00 per 1000. Smaller quantities at proportionate rates.

FRANK L. MOORE, Chatham, N. J.

Mention American Florist.

E. G. HILL & CO., RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAPLES:
ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.

H. P. ROSES, strong, outdoor grown, Gen'l Jacq., Washington, Couquette, Mme. Mason, M. C. Wood, La Reine, Black Prince, etc., \$1.50 a doz.; \$12 a doz. CLEMATIS, large flowered, fine var., \$25 and \$35 per 100; \$5.00 and \$10 per dozen.
HYACINTHS, 3½-in. pots, named sorts, \$1 per doz.; per 100, \$10.00. In good condition for shipping.
CYCLAMEN Giganteum & Persicum, best strains, very choice stock in bud and bloom, \$1 doz.; \$8 a 100.
H. P. ROSES, summer grown, fine young plants in best sorts, \$5.00 per 100; \$45.00 per 1000.
F. A. BALLER, Bloomington, Ill.

ROSES.

Roses bought now for \$40 per 1000, or \$35 if our selection. Will net the purchaser over 100 per cent. by Spring.

100,000 in 50 Leading Sorts READY NOW.

— ALSO THE CREAM OF —

Chrysanthemums and Bedding Plants.

Largest and most select stock in the South-West. OVER THREE ACRES UNDER GLASS.

Send in your lists to be priced.

Wholesale and Descriptive Catalogue of 90 pages free to all.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

PLANTS for CUT FLOWER GROWING

Roses, Carnations,
Chrysanthemums, Ferns.

I grow all the best varieties for this purpose. Wholesale list now ready. Send for it before buying your stock for planting.

M. A. HUNT, Terre Haute, Ind.

ROSES.

We are now taking orders for delivery after March 1st, on the following varieties: 2-inch pots: Perles, Niphelios, Souv. d'un Ami, Cook, LaFrance, Bennett, Bride, Mermel, Wootton, Henri and Beauty. Orders booked in rotation and good stock guaranteed. Reasonable prices given upon application. Address **GERMOND & COSGROVE,**
Rockland County, SPARKILL, N. Y.

THE NEW ROSE WABAN.

This very valuable rose originated at the Waban Conservatories of E. M. Wood & Co., Natick, Mass. It is a SPORT from Catherine Mermet and identical with that variety in every characteristic, excepting color, which is a rich, deep, BRIGHT PINK; it sustains the same relation to its parent as Duchesne of Albany does to La France. The only objection to C. Mermet is its frequently pale, insipid color in cloudy weather; experience has shown that the WABAN retains its deep rich color in all kinds of weather; it will, without doubt, prove to be as valuable as THE BRIDE which is also a sport from the same magnificent variety.

IT HAS ALREADY RECEIVED THE SILVER MEDAL

of the Massachusetts Horticultural Society; of the Pennsylvania Horticultural Society, and Certificate of Merit from each of the Societies in this country and Canada where it has been shown.

READY FOR DISTRIBUTION ON APRIL 15th, 1891.

ORDERS BOOKED NOW, WILL BE FILLED IN STRICT ROTATION.

Extra good plants from 2½-inch pots.

From 4-inch pots.

1 Plant, \$ 1.00	250 Plants, \$100.00	1 Plant, \$ 1.50	50 Plants, \$ 40.00
12 Plants, 9.00	500 " 175.00	12 Plants, 15.00	100 " 75.00
50 " 30.00	1000 " 300.00	25 " 25.00	
100 " 50.00			

The following Agents have been appointed to sell the Rose in the respective territories given below:

W. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th & Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

Our stock of this variety will all be re-handled at our own greenhouses so they may be in the best possible condition when they leave our place, on the same date as sent out from Boston—April 15. For this reason customers in OUR TERRITORY will we believe do well to secure their supply either directly from us or through jobbing agents using our stock. We will give names of such on application.

J. C. VAUGHAN, CHICAGO.

WABAN.

CUSTOMERS AND OTHERS PLEASE NOTE.

In my Trade List just sent out a printers' error occurs, it reads "25 2½ plants \$30.00"; it should read 50 plants 2½ \$30.00.

JOHN N. MAY, Summit, N. J.

ROSES.

PERLE DES JARDINS, NIPHETOS, C. MERMET, THE BRIDE, CORNELIA COOK, PAPA GONTIER, MARIE GUILLOT, AGROPINA (Syn. Queens Scarlet), ARCH DUKE CHARLES, S. D'UN AMI, MME. F. KRUGER, DUCHESSE DE BRABANT, In 2½-in. pots, price \$4.00 per 100; \$40.00 per 1000. Own selection \$55.00 per 1000. CLOTHILDE SOUPERT, a fine new White Rose, \$6.00 per 100. Onychium Japonicum, a fine Fern for cut flower work, 4-in. pots, \$10.00 per 100. Ficus Elastica, 4-in. pots, \$2.50 per dozen. Cycas Revoluta, 6-in. pots, \$15.00 per dozen. Cycas Revoluta, larger plants, \$50.00 per dozen. The roses are all the healthy plants, with plenty of roots—will give entire satisfaction.

Address

A. LAUER,

1210 East Broadway, Louisville, Ky.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

SAN FRANCISCO, CAL.

SEEDS

ROSES Seeds, Plants, Shrubs, Vines, Fruit & Ornamental Trees, Etc.

CATALOGUE FREE.

Over 150 pages illustrating and describing one of the largest and best assorted stocks of Seeds, Trees and Plants in the U. S. Best value for the money in our Tested Novelties and Special Low Priced Collections.

37 YEARS. 25 GREENHOUSES. 700 ACRES.

THE STORRS & HARRISON CO.,
Painesville, Ohio.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

3000 Gen'l Jacq. Rose plants, 4-in. pots, per 100, \$8.00. Celsus Outtings rooted, Verschaffeltii, Golden Boder, Golden Verschaffeltii and Sunset, per 100, 75cts. per 1000, \$6.00.

JOHN RECK, Bridgeport, Conn.

READY FEB. 15.

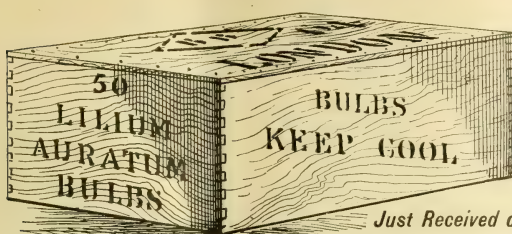
1000 Perles, 2½-in. pots,	Per 100 \$ 1.50
1000 Marie Guillot, strong, 2½-in.	4.50
1000 Mermet, 2½-in. ready March 15.	4.50
500 Brides, ready March 15.	4.50
100 La France, ready March 15.	4.50
100 Jacqueminot, ready May 1st.	4.00

WANTED TO EXCHANGE FOR

300 Mme. de Watteville.	300 John Laing.
300 Meteor.	300 Magna Charta.
300 American Beauty.	300 Niphotos.

LA ROCHE & STAHL,

1237 Chestnut St., PHILADELPHIA, PA.



500 CASES LILIUM AURATUM —OR— Golden Japan Lilies

From 10 to 14 inches in
Circumference.

Just Received direct from Japan, via London.

This importation is the **FINEST** lot that has ever arrived in this country. They are packed in soil—each case containing **50 Bulbs**—and will keep perfectly sound until June.

Price per Case, \$6.00.

5 Cases at \$5.75. 10 Cases at \$5.50. 25 Cases at \$5.25. 50 Cases at \$5.00.

Also 100 Cases, assorted varieties, as follows:

2 Liliun Auratum,	4 Liliun Speciosum Album,	4 Liliun Speciosum Rubrum,
6 " Elegans,	6 " Elegans Flore Semi Pleno,	6 " Tigrinum Splendens,
6 " Tigrinum Flore Pleno,	6 " Batemanii,	

at \$7.50 per Case, or Five Cases at \$7.00.

Also 200,000 Double Pearl Tuberoses

ranging in size from 4 to 7 inches in circumference, at \$8.00 per 1,000, or 5,000 lots at \$7.00.

ROBERT BUIST, Jr., Importer and Grower of Seeds, Philadelphia, Pa.
Warehouses—No. 922 & 924 Market St.

GOLDEN BEAUTY TO THE FRONT.
I have never failed, but have stood the more practical test, for no early yellow Chrysanthemum gave better satisfaction to seller and buyer than the above. Such was our experience, and also of all who handled it. What they say:

"We handled no early yellow that sold better or gave better satisfaction to the buyer."—James Carlledge, of Fenwick, Bros., 1514 Chestnut street, Philadelphia, Pa.
"You can get nothing better than that."—Wm. Voght, Jr., 341 and Cooper Sts., Camden, N. J.
It was described in these columns last year, and we leave it to tell its own story. Subsidy it to say that our claims for it have been more than sustained, and that it combines all the essentials of a first class market variety for potting and cutting. Ready in quantity March, April and May. 12 for \$1, 100 for \$8. You can not afford to get left on this offer. Orders booked now are filled in rotation as far as plants are ready, by express or free by mail.

THE NEW DOUBLE WHITE DAISY SNOWFLAKE.
One of the best things out for winter flowers. Will grow and bloom all winter in a cold frame and if well covered cold nights will need no better quarters. Gives splendid returns. It does not seed, and can only be increased by division. Flowers pure white, very double, and beautifully quilted. As large as a 5c. piece. Ready now. 12 for \$1, 100 for \$8. Sample plant and bloom free by mail on receipt of 10 cents.

See other special offers in another column.
J. C. GIBSON, Woodbury, N. J.

CHRYSANTHEMUMS.

—Choice Selection of my—

EXHIBITION VARIETIES

FOR SALE, AND WATER LILIES.

WM. TRICKER, Dangan Hills, S. I. New York.

CHRYSANTHEMUMS.

HOLLIS' SEEDLINGS OF 1890.

Nine distinct and choice varieties. Prospective prize winners of 1891 need them. Best quality and lowest price.

35 to 50 cents each; \$3.00 for the set. Send for descriptive list.

GEORGE HOLLIS, South Weymouth, Mass.

EVERY FLORIST SHOULD HAVE A COPY OF
OUR TRADE DIRECTORY.

AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

CHRYSANTHEMUMS.

Waterer's Novelties for 1891.

ELDERADO, MARY WATERER,
KATE RAMBO, M. P. MILLS,
MRS. H. A. PENNOCK (yellow violet
rose), MRS. JOHN WESTCOTT.

Also a large stock of MISS MINNIE
WANAMAKER, the best white
in cultivation.

Price list on application to

H. WATERER,

109 South 7th Street, PHILADELPHIA, PA

Tuberous Begonias

OUR SPECIALTY.

Our stock is the largest in America, and contains over 200 varieties of named Doubles.

WE WILL SEND POSTPAID

12 named doubles, very best.....	\$12.00
12 " " choice.....	9.00
12 " " fine.....	6.00
12 " " good.....	3.00
Single, mixed.....	100 3.00
" red and pink.....	5.00
" small tubers.....	4.00
Double, mixed.....	12.00
" small tubers, not flowered.....	10.00
Seed, double, hybridized from named flowers.....	per 500 .50
Seed, single, extra hybridized.....	per 1000 .50

F. J. MEECH & SON.,
CHARLEVOIX, MICH.

Gorgeous Begonias

TUBEROUS ROOTED.

Now is the time to sow. The best strain in Europe. \$1.00 per packet, Double or Single.

R. OWEN, Begonia Grower,

Maldenhead, England.

SURPLUS STOCK.

Primula Obconica, 2½-inch.....	Per 100 \$4.00
" " 3-inch.....	8.00
Coleus Golden Bedder and Setting Sun, 2-inch.....	3.00
Vinca Roses, very fine, 2½-inch.....	3.00
Vinca Alba, very fine, 2½-inch.....	3.00
Echeveria Secunda Glauca, strong plants.....	3.00
Echeveria Secunda Glauca, very strong, 3-inch.....	5.00
Dahlias, field grown roots.....	5.00
Amarylilis Formosissima, very choice stock.....	8.00

Address MICHEL PLANT AND SEED CO.,
St. Louis, Mo.

LILY OF THE VALLEY PIPS.

(Selected strong 3-year-old Pips.)
For terms and particulars apply to

WM. HAGEMAN,

Eight and McKean Sts., Philadelphia, Pa.
Sole agents for the U. S. for the United Hamburg and Berlin Growers. Office Hamburg Pferdemarkt, 23.
Highest U. S. reference furnished as to quality.

PANSIES.

L. T. Seaver, who is the leading pansy grower of America, ships to wholesale buyers in every city in New England and many large cities in New York. He now offers to the trade a **NEW PATENT VERBENA AND PANSY BASKET** which is better and cheaper than any yet made.

Send for information to

L. T. SEAVER, North Somerville, Mass.

A SOLID AGRE OF HARDY PINKS SOLIDLY FROZEN

Into the ground, but will thaw out BRIGHT and EARLY. Orders booked now for Spring Shipment.

THESE PINKS do not produce seed, but increase from the root, and live year after year in the open ground. Send for list to

THADDEUS HALE, South Byfield, Mass.

Chicago.

The contemplated spring exhibition has been abandoned, it having been decided that the time for preparation was altogether too short. But work will be at once begun on the details of the fall exhibition to be given during the chrysanthemum season, and something will be done toward preparations for a spring exhibition next year.

No business of importance was transacted at the last meeting of the Florist Club except to listen to the report of the committee on exhibition, of which the substance appears in the preceding paragraph. Mr. Chas. Dannacher, of Davenport, was present as a visitor and gave an interesting history of the experiences of the Tri-City Florist Club.

Mr. E. C. Reinman, president of the Pittsburg and Allegheny Florists' Club paid Chicago a visit last week. He says the P. and A. Club has now 110 members and is still growing. Pretty lively sort of an infant.

The smilax situation changed just before Lent came in and the demand used up all the available supply.

Trade has held up splendidly since Lent came in, far ahead of expectations. Stock is improving in quality.

One commission man reports an unusually heavy trade with the south, his shipments to New Orleans being especially large.

The organization of the Horticultural Department of the World's Fair still hangs fire. It was expected that the appointment of Chief would certainly be made at the meeting of the Directory last Friday evening, but it did not materialize, though the Chiefs of several other departments were named.

Zirngiebel's Improved Strains

—OF—

WHITE ASTERS, PERPETUAL WHITE STOCKS, GIANT MARKET and FANCY PANIES; NEW HYBRID CARNATIONS, a cross between the Perpetual and Marguerites, and greatly superior for florists' use, in separate colors, pure yellow, white, pink and red shades.

Any of the above seeds in trade packets at \$1.00 each.

Also the choice NEW CONTINENTAL CARNATIONS for 1891. Miss Moore, Mme. Gobet, Roi des Violettes, Bouton, d'Or, Geanne Morel, to be sent out March next.

Send for Descriptive List of all to

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.

NELLIE LEWIS.

HAVE GROWN THE CARNATION TWO SEASONS AND NOW OFFER ROOTED CUTTINGS FOR IMMEDIATE DELIVERY

At \$2.50 per dozen. Four for \$1.00, By mail postpaid.

GEO. HANCOCK, Grand Haven, Mich.

ROOTED CUTTINGS.

Now Ready.

Anthemius coronaria d. pl. Abutilon in var. Gypsophylla. *Convallaria* Maund. *Chrysanthemum* *Nierembergia gracilis*; *Chae mteana* b. sulda; *Fuchsia*; *Meenbranthemum cordata* var. *orthocentris*; *Scilla*; *Scilla* *Sanderdomi* and *Branthia alba*. \$1.50 per 100. *Geranium* *Mine*, *Salleri*; *Paris Daisy*; *Othonia crassifolia*. *Hellebore*; *German* *ivy*; *Cypripedium*; *Aceratum*; blue and white *Gnaphalium lanatum*; *Lantana*; *Double Sweet Alyssum*; *Semipervirens*; *Suevia serrata* *nana*; *Pilea musco*; *Saxifraga* *Sarmatica*. \$1.00 per 100. *Veronica* *Vesta* *rust* *white*. \$1.00 per 100. *General Collection* 57 per 1000. 75 per 100. *Roses*, *Hermosa* 2 in. pots \$1.50 per 1000, 4 in. per 100. *Marie Guillot* 2 in. pots. 40 per 1000. **A. GIDDINGS, Danville, Ill.**

CARNATIONS, best standard cor.s, rooted early, \$3.00.

DRACENA Indivisa, fine stock, 6c-10c. **MCCREA & COLE**, Battle Creek, Mich.

ROOTED CUTTINGS.

CARNATIONS FOR DELIVERY FEBRUARY AND MARCH.

70,000 MRS. FISHER.

Other Standard sorts in smaller quantities, all well rooted and healthy stock, at moderate figures, for which send for lists.

30,000 L. L. LAMBORN.

CARNATION NOVELTIES:

All of the season, including Lizzie McGowan, Hector, Louise Porsch, and others.

CANNAS: *Ehemanni*, strong roots at \$5.00 per 100; \$1.00 per dozen. *Emile Leclair*, at \$10.00 per 100; \$1.75 per dozen. *Dwarf French*, at \$12.50 per 100; \$1.50 per dozen.

SMILAX:

For delivery in March and April, at \$6.00 per 1000. Nice stocky plants once reset. **Send for Lists.**

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

LIZZIE MCGOWAN,

* * THE QUEEN OF WHITE CARNATIONS! * *

Will be ready for distribution February 10th, '91. Price, \$12 per 100; \$100 per 1000, for strong well rooted plants from cutting bench. Plants well established in small pots, \$3 per dozen.

Send for price and descriptive list of this and other sorts.

ADDRESS

H. E. CHITTY, PATERSON, N. J.

Mention American Florist.

Rooted Cuttings.

NOW READY. UNSURPASSED IN QUALITY.

GOLDEN GATE, ROOTED CUTTINGS, \$1.50 per dozen; \$12.00 per 100; \$100.00 per 1000. **Grandest New Pure Yellow.**

WM. F. DREER, ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$90.00 per 1000. **Magnificent, Fringed Rose Pink.**

J. R. FREEMAN, ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000. **Fragrant, Crimson Scarlet.**

CONSTANCY, ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000. **Glowing, Bright Scarlet.**

FRED CREIGHTON, ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000. **Delicate, Soft Pink.**

For well established plants from small pots, see **ILLUSTRATED CATALOGUE—free.**

ROOTED CUTTINGS, at prices per dozen, free by mail.

CHAS. T. STARR, Avondale, Chester Co. Pa.



LIZZIE MCGOWAN THE NEW WHITE

CARNATION. ROOTED CUTTINGS, \$12 per 100, or \$100 per 1000.

LOUISE PORSCH FINE YELLOW

CARNATION. Better grower than Buttercup; \$7 per 100; \$50 per 1000.

Both ready for delivery Feb. 10, 1891. 50c at 100 rate, 50c at 1000 rate.

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363 Main Street, ORANGE, N. J.

THE AMERICAN FLAG

Is the best STRIPED CARNATION ever produced; it is a strong grower, free bloomer and very fragrant; it grows and flowers well outside and forces good inside.

\$ 2.00 per dozen.
12.00 per hundred.
100.00 per thousand.

We deliver only well Rooted Cuttings which have been once transplanted.

Ready for Delivery March 1st, 1891.

Ig. FORSTERMANN, Newtown, Long Island, N. Y.

ROOTED CUTTINGS OF CARNATIONS.

Standard and Fancy varieties, ready January 1st. Stock healthy, cuttings rooted cool. A large stock of NEW WHITE CARNATION L. L. Lamborn. A liberal discount on large lots for later delivery. Send for wholesale price list.

Wm. Swayne, P. O. Box 226, Kennett Square, Pa.

CARNATIONS HECTOR,

a brilliant, dazzling scarlet, very large flower, free and continuous bloomer, plants strong and with robust constitution. Have not seen its equal. No grower should be without it.

MRS. FISHER, the peerless white, and **FERDINAND MANGOLD**, the leading crimson.

Send for Catalogue containing general list of Carnations and Chrysanthemums.

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Rooted Cuttings of the following vars. at \$1.00 per 100
HINZE'S WHITE, JEANNETTE, PETER HEN
DERSON, SNOWDON PORTIA, E. G. HILL,
GRACE WILDER, ANNA WEBB,
PRIDE OF KENNETT, DAWN,
CENTURY, \$2.00 per 100.
FRED CREIGHTON (New) Pink, \$4.00 per 100.
Double White, Double Variegated and Fringed
PETUNIAS, \$2.00 per 100.
GERANIUMS, all the finest varieties in mixture
\$5.00 per 100; to name, \$4.00 per 100.

ROOTED CUTTINGS of the leading varieties of forcing
ROSES, Prices on application.

JAMES HORAN, Florist, Bridgeport, Conn.
Mention American Florist.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100.
Send for circular of leading varieties and several new seedlings of merit.

W. R. Sheldahl,
AVONDALE, PA.

CARNATIONS. ROOTED CUTTINGS

of New and Old varieties at the lowest price possible to secure good stock from healthy plants. Seventy-five thousand will be ready by Feb. 1st. Send for catalogue or price list.

SEND ORDERS EARLY.
ISAAC LARKIN, Toughkenamon, Pa.
Mention American Florist.

ROSES AND CARNATIONS.

I shall have for spring delivery a surplus stock of plants in 2½, 3 and 4-in. pots, in the very best condition, of the following roses:

AMERICAN BEAUTY, **DUCHESS OF ALBANY**,
MME. HOSTE, **SOUVENIR DE WOODTON**, **LA FRANCE**, **MERMET**, **PERLE DES JARDINS**,
BRIDE and **NIPHETOS**. And of

CARNATIONS
SILVER SPRAY, **TIDAL WAVE**, **PORTIA**,
AND PRESIDENT DE GRAU.

All of the above stock will be in first class condition and guaranteed to give satisfaction. Orders booked now to be filled at any time desired.
Price list on application.

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HINSDALE, ILLINOIS.

Carnation Cuttings.

Boxed off and well established. Send for Price List.

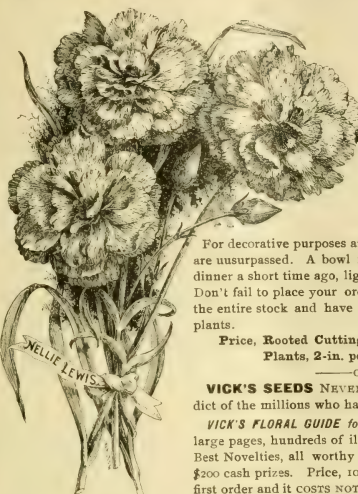
DE WITT BROS.,
BRISTOL, PENNSYLVANIA

CANNAS.

Per 100
Khemanni and LaTour de Grand Ronde, \$8.00
Emil Leclaire, Nouton and Adolphe Weick, 12.00
Tuberoses, Pearl, 1st size, per 100 \$10.00
Caladium Esculentum, 1st size, 0.00
2nd size, 0.00
Can be in exchange, 1,000 Carnations, Rooted Cuttings.

E. S. NIXON & SON,
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THE LATEST AND GRANDEST NOVELTY OUT. NELLIE LEWIS CARNATION.



Flowers very large and full, and of a color never before seen in Carnations — **AN EXQUISITE SHADE OF PINK.**

For decorative purposes and corsage bouquets, they are unsurpassed. A bowl filled with them used at a dinner a short time ago, lighted up the entire table. Don't fail to place your order at once, as we control the entire stock and have only a limited number of plants.

Price, Rooted Cuttings, per 100, \$10.00.
Plants, 2-in. pots, per 100, \$12.00.

VICK'S SEEDS NEVER DISAPPOINT, is the verdict of the millions who have planted them.

VICK'S FLORAL GUIDE for 1891, contains over 100 large pages, hundreds of illustrations, colored plates, Best Novelties, all worthy of cultivation; \$1,000 and \$200 cash prizes. Price, 10 cents, which deduct from first order and it costs NOTHING.

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* CARNATIONS. *

GRACE WILDER, **QUEENS SCARLET** or **PORTIA**, **PEERLESS WHITE**, **HINZE'S WHITE**, **SNOWDON**, Rooted Cuttings for Feb. and March delivery, \$1.50 per 100; \$12.00 per 1000. Plants \$4.00 per 100, 10 other new and old leading varieties.

VERBENAS—Stock plants or rooted cuttings. Finest Verbena and Pansy Seed.

Best strains Flower and Vegetable Seeds. Catalogue free.

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CARNATIONS! **LIZZIE MCGOWAN**, **FRED. CREIGHTON**, **FAIR ROSAMOND**, **J. R. FREEMAN**, **HECTOR**, **GOLDEN GATE**, **FAIR CHASTITY**, **SILVER SPRAY**, **TIDAL WAVE**, **GRACE WILDER**, **L. L. LAMBORN**, **CONSTANCE**, **EDELWEISS**, **EMILY LOUISE TAPLIN**, **ANGELUS**, **LOUISE PORSCH**, **NELLIE BLY**, **DOROTHY**, **DAY BREAK**, and sixty other leading varieties. 50,000 now in cutting bench. Send for price list, and order early.
GEO. HANCOCK, Grand Haven, Michigan.

CARNATIONS.

Rooted Cuttings of the following varieties at \$1.00 per 100; \$9.00 per 1000.
GARFIELD, **I. J. HARRISON**, **MRS. JOUFFE**, **PORTIA**, **ALEGATIERE**, **MRS. F. MANGOLD**, **GRACE FARLOW**, **GRACE WILDER**, **L. L. LAMBORN**, **WM. SWAYNE**, **HINZE'S WHITE**, **PRES. DEGRAU**, 75c per 100; \$5 per 1000.
FRED B. LEWIS, Lockport, N. Y.

Rooted Cuttings of Carnations

In great quantity, ready now.

Also 25,000 **PEARL TUBEROSE BULBS**
1st size at \$7.00 per 1000.
2nd size at \$5.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

* ROOTED * COLEUS CUTTINGS.

Golden Bedder, Golden Ver coaffeltii, Crimson Verschaffeltii, Peter Henderson, Fred v.d. Glory of Autumn, Sanray, J. Goode, Crimson Bedder, Sunset, Etc

Ten strong Cuttings each, of above ten varieties, by Mail, One Dollar.

Twenty fine sorts, including above five of each, by Mail, One Dollar.

Write for prices on larger lots by Express. Samples of the 20 sorts mailed for 25 cts. All cuttings strong and healthy, labeled, and well rooted.

ALEX. MCBRIDE, ALPLAUS, NEW YORK.

Montreal.

The long looked for annual drive and social of the Montreal G. and F. Club took place on January 27 and turned out to be the most successful and enjoyable social event that has taken place in connection with the club since its organization.

The members with their wives and lady friends to the number of one hundred and fifty drove out to the athletic club house at Cote des Niegues arriving there at 9 o'clock, and when wraps and overcoats were laid aside, dancing to the music of a first class orchestra was indulged in until 11:30, when supper was announced, so an adjournment was made to the spacious dining room, where a sumptuous repast was waiting. After full justice was done to the good things a few toasts were drunk, the responses to which were brief and witty, President Doyle making the decided hit of the evening.

Adjournment was again made to the hall room where a short programme of vocal and instrumental music was enjoyed, the principal numbers being a duet by Secretary Wilshire and his talented sister, a good performance on the concertina by a member, Mr. John Perrin bringing down the house with his comic songs, after which dancing was again indulged in until 2:30 a. m., when the sleighs were ordered and the happy party were soon tucked under the buffalo robes and on their way back to the city, which was reached about 3:30 a. m., every one being satisfied that they had spent a most enjoyable evening, the general wish of the ladies being that the social was weekly instead of annual.

The Gardeners' and Florists' Club held its regular monthly meeting, February 10, there being forty-five members present. The committee having the late drive and social in charge reported their business all settled with a balance of fourteen dollars on hand, which was considered a very successful showing. The committee received the thanks of the club and were discharged. Votes of thanks were also tendered Mr. J. Bennett for having supplied bouquets to the ladies and to P. McKenna & Son for the flowers and plants used in the table decorations. The executive committee reported that the Windsor Hall had been engaged for the March exhibition, also that subscriptions towards the prize list received since the last meeting amounted to nearly two hundred dollars, the dates fixed for the show are the 25th and 26th of March.

It was decided to devote the sum of one hundred dollars to the purchase of a cup for the twelve best plants in chrysanthemums, distinct varieties, to be competed for at the November show; it must be won three times by any member before it becomes his property, a money prize to accompany it each year.

At the January meeting of the club the secretary was instructed to correspond with the different clubs in Canada, with the view of establishing a national cup for cut chrysanthemum blooms, the competition to take place each year where the cup is held. The secretary reported having written to the four principal clubs, but no definite answer having been received from any one of them, it was decided to leave the matter open for further consideration at a future meeting.

"Prof." Ino. Perrin had a paper prepared on "Weather Forecasting," but it had to be deferred until the next meeting on account of the lateness of the hour.

Trade is very dull here just now, and has been so since New Years. Mc.



READY · THIS · WEEK

FLOWER SEEDS! just received

500 varieties of FRESH FLOWER SEEDS, positively 1890 Crop. Get our Book for Florists.

J·C·VAUGHAN CHICAGO

WE STILL LEAD, OTHERS TRY TO FOLLOW



To whom was awarded the **Only First-Class Certificate of Merit** for "Standard" Flower Pots, at the Sixth Annual Convention of the Society of American Florists, held at Boston, Mass., August 22d, 1890? We were. Why? Because we manufactured and exhibited the **only true "Standard"** Flower Pots, and of which we claim to be the **only manufacturers** at the present time.

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M. J. MCCARTHY, 27 & 29 Otis Street, Somerville, Mass.

150 Acres.

Large Assortment.

TREES, SHRUBS, VINES,

FRUIT AND ORNAMENTAL.

TRADE LIST ON APPLICATION.

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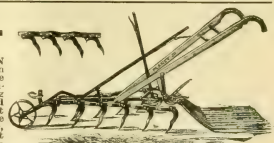
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Vol. VI. CHICAGO AND NEW YORK, FEBRUARY 26, 1891. No. 143.

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PRINT your spring trade list in our double Easter number, to be issued March 19, and send copy early, not later than March 14, and as much earlier as you can. This number will go to every name in the American trade, and 500 extra copies to the best firms in Europe.

FROM COMPLAINTS received we learn that some copies of last issue were imperfect, pages of another journal being accidentally bound in with the FLORIST. Imperfect copies have been received by any who have not yet made complaint to us we ask them to at once notify us that we may send them perfect copies.

The Arrangement of Flowers with Respect to Color.

Perhaps there is nothing in nature or art which appeals more strongly to the sense of the beautiful within us than color; and it is also possibly true that we have never fully gauged our capacity for its enjoyment. We do not, in fact, thoroughly realize our physical relation to color until some accident or change of circumstances disturbs it, and then we are astounded by the fact that the blue sky, the green fields, the many colored flowers, the golden sunsets, the purple mountains, the emerald sea, and the spelt snow make up so large a part of our life. After a long season of dull rainy weather what a pleasure it is to see a bit of blue as big as our hand; and after the dreary winter has dragged itself into the middle of March, how delighted we are to see in the brown earth the first green promises of the purple or yellow crocus.

We are charmed with the nobility and beauty of Greek sculpture, and we are irresistibly drawn to the perfected forms of the old statues, but they are all cold and colorless. And what there is of color in art, never approaches nature. The snowy white of lilies is purer, the transparent gold of daffodils richer, the luscious purple of pansies more courtly, and the blushing pink of roses more lovable, than all the classic art of the world put together. So we must go to the florist for the prime of the world's greatest blessing in color—the flowers; these are they which are clad more than the glory of Solomon, and they come to us freshly tinted from the color box of God.

It is just here where nature ends the matter in a free gift from the Great Artist of the universe, that art begins and the opportunity lies open for the florist. I do not mean in the direction of forced growth and hybridizing, but in that of decoration. Flowers are nature's own ornaments and we adapt them on all occasions and in every possible way to the adornment of our houses and gardens, wisely, but in some cases, I fear, none too well. Our friends, the artistic Japanese, would be horrified to see some of our ornamental anchors, lambs and wedding bells. And they even draw the line at a combination of more than two flowers in one vase.

Perhaps our greatest need in this day of overwork and decoration is simplicity. It seems a hard lesson to learn, however, and we very slowly relinquish our pet ideas of crowding together as many things of a different nature as possible. Nothing is more disastrous to artistic effect than a great variety of colors, which are sure to be more or less inharmonious. In July the green meadows are sprinkled over with innumerable white daisies, and in September the roadsides are aglorious in the yellow and purple of golden rod and aster; no jumble of

color this, but a perfectly evident harmony, simple as it is beautiful.

The question arises what then can we do to render our flower decorations more artistic and enhance their color effects? Two things, apparently. First, we must adhere to every principle of simplicity in color and arrangement, and second, we must avoid artificiality. In illustration of these excellent rules let us take some familiar but characteristic flowers and subject them to a little artistic treatment. The Mrs. Alpheus Hardy chrysanthemum for instance, is remarkable for its frost-like sheen and snowy whiteness. To accentuate these qualities we will arrange it in an ordinary terra cotta vase and place it before a background of carelessly crumpled, rusty black cotton velvet, which will absorb every bit of light that does not fall upon the flower. Now throw the gas jet or incandescent light directly upon the upper surface of the flower, shielding of course, the light from the spectator's eyes. The result will be marvelous. The flower, even though it be far from a spotless specimen, will look, if possible, "whiter than snow." Suppose we try a similar experiment with the Catherine Mermet rose, choosing a sage green velvet in place of the black. Such a rosy glow of color will proceed from the flower as we never suspected it possessed. Now try an artistically careless group of daffodils placed in a common blue and white cylindrical Japanese vase and backed up with a crumpled bit of dusty, grayish, greenish blue velvet or velveteen; there is a mine of gold now in our daffodils, which will be sure to rivet the gaze of every passer by who loves the color of the precious metal. Thus, too, we may treat with equally pleasing results the Cullingfordii chrysanthemum or the Jacqueminot rose, substituting a dull olive green background for the blue one. We will find in this case that the flower will fairly glow with the intensity of its own color. Violets placed in common yellow jars and relieved by a pale yellow background will show a wealth of cool color under an electric light. But all these are instances where we have to deal with single varieties of flowers; the case is quite different when we have a whole window full of almost every possible variety. The florist's window filled with a chaos of form and color never can convey to the eye of the passerby any clear, artistic impression. There *must* be law and order here, and the greatest care should be exercised in the arrangement of effective color groups and form contrasts.

The simplest principles govern all proper color arrangements, and these will be instinctively felt rather than learned by those who will devote a little time and attention to the matter. The first principle is one of analogous harmony and the arrangement of color in the rainbow

is its perfect exponent—purple, blue, green, yellowish green, yellow, orange, scarlet and crimson. The second principle is one of contrastive harmony and the combination of the opposing colors of the rainbow is its perfect exponent. In the first instance we have side by side colors, in the second opposite colors, thus:

Analogous Harmonies. Contrastive Harmonies.

(Crimson,	(Purple,
(Blue,	(Yellow,
(Purple,	(Blue,
(Green,	(Orange,
(Yellowish Green,	(Green,
(Yellow,	(Scarlet,
(Orange,	(Greenish Yellow,
(Scarlet,	(Crimson.
(Crimson.	

It would be an almost endless task to mention those flowers which would combine with each other harmoniously under these two principles. Nature never breaks either of them, and we have an abundant opportunity in the grouping of flowers to follow her excellent example. I know that it is a very strange principle which combines blue with purple, purple with crimson and crimson with scarlet, not to speak of the blue with green; but this will need some explanation. Let us look at some examples in nature. Notice the fuchsia, the John Thorpe chrysanthemum, the lilac, the sweet pea, the passion flower, the morning glory and the hydrangea. These flowers have all of them some combination of color running between the scarlet and the blue. Then among the fruit we see crimson plums with purple bloom, purple grapes with blue bloom, and crimson apples with blue bloom, in fact there is an endless variety of these peculiar combinations of color in nature, which more than establishes her regard for the principle. But one thing we must bear in mind, her methods are subtle and infinitely delicate. Her analogous colors when they are broken up into such small patches that their individuality is lost. I question very much the possibility of placing the scarlet gladiolus beside any crimson or purple flower without a riotous result. And on the contrary I have seen some lovely combinations of scarlet, crimson and purple verbenas. It is unnecessary to defend the principle of combining blue with green, the earth and the sky establish that beyond a doubt. Mix blue forget-me-nots with mignonette and note the result. In the matter of yellow and orange combinations, what is more beautiful than a great bed of marigolds ranging from orange to pale lemon yellow? Yet if we place the *Nesima chrysanthemum* beside the Lincoln the result is disastrous, both are injured. It seems as though yellow is especially effective with white, and a combination of white *carissus* with yellow pansies, or yellow daffodils with white pansies is particularly delicate and beautiful. The truth is, white always combines wonderfully well with all delicate colors, but white roses with dark red ones, white pinks with dark purple pansies or violets, white chrysanthemums with deep crimson ones, all are in violent contrast with each other, and although nothing is really bad in such combinations nothing is gained, unless it be the sharp contrast desired in large groups of potted plants indoors, or in certain distant effects in the garden.

There is something immeasurably injurious to artistic and refined color effects in the set beds so common on our green lawns. Nothing is prettier than a dainty daffodil fluttering in the breeze over a

little patch of pale blue violets. Yet there is something woefully artificial in the set parallelogram exactly shaped and filled with violets and daffodils exactly spaced.

Our great need to-day is an appreciation of the value of simplicity and perfect naturalness. When the simple truth of the utter poverty and worthlessness of artificiality is learned by artist and decorator, by florist and gardener, then we will see their respective arts grow greater, and not until then will we thoroughly enjoy the full meaning and beauty of color, which it is their great privilege to be associated with above every other calling or profession in life.

F. SCHUYLER MATHEWS.

New York Floral Notes.

The Havemeyer ball took place on the 2nd of the month, and Siebrecht & Wadley did the decoration. The Havemeyer house is a regular Parisian palace with an entrance through a large winter garden. This, of itself, is an immense hall all of marble. Here were five groups of tropical plants of geometric design, which started with maiden-hair fern at the base and then rose to the height of from fifteen to twenty feet. The larger plants were, of course, palms of different varieties. These were all arranged with blooming plants for this occasion. At the foot of the stairway was a large bank of Magna Charta roses in pots. They carried from five to seven open flowers, and there were fully two thousand open roses in the entire bank. At the top of this bank was a *Chamaerops humilis stricta* twenty-one feet in height, which looked very majestic placed in this group. About the bank were growing ivies upon which were festooned American Beauty roses in clusters of two and three. Connecting with this group was a winding wire fence five feet in height and 24 feet long, which was covered with growing ivies. The great conservatory, which is on the second floor, is the largest private one in the city. At the door of this conservatory there were two groups of growing *Lilium Harrisii* and *L. auratum*. About sixty plants were placed in each, and they were surmounted by large palms. Dozens of large Magna Charta roses were scattered in this conservatory, which is always a tropical garden, but for this occasion was garnished with blooming plants such as geranias of a large size, azaleas, and choice cypripis. There was a row of ivies, asparagus, and bloom of the *Bougainvillea spectabilis* stationed near this group of plants, and quantities of fine orchids were placed in the front portion of the conservatory with some beautiful nepenthes.

The ball room was decorated entirely in white on account of the young lady's name being Blanche, and this being her first evening in society. The decoration of the dining room was all of carved oak which was gilded. The corners of the room were filled with white camellias, and the plants used to alternate these with were *Lilium Harrisii*. The mantel-piece had on it a large banana basket four feet long filled with twelve hundred sprays of lily of the valley. This basket was trimmed with six yards of white satin ribbon. The thirteen windows in this ball room were treated with Roman garlands, which were wound around with white satin ribbon five inches in width. There were quantities of *Mermet* roses among these ribbon garlands. The dining room had thirty tables in it, on each of which was a basket of lily of the valley

and daisies. In the centre of this basket was a silver lamp which gave the light of the room. There were two large vases on each side of the entrance to the dining room, which were large specimens of the sixteenth century and very handsome. These were filled with one hundred American Beauty roses, and were greatly admired.

We have had some very handsome dinner decorations lately done by Mr. Hall of S. J. Burnham & Co., where he has had orchids and the sweetest centred myrtle.

Klunder has also done some fine decorating at Mrs. Sloan's, using *Gloire de Paris* roses, the first of the season, with fine effect, and La France roses, lilacs and lilies of the valley with great beauty. At the dinner on the fifth instant at Mrs. Astor's given to Miss Willing, was an enormous tray filled with roses, lilies of the valley and orchids, which was a superb piece.

Thorley made some fine bouquets for the Burrows' wedding. One bridal bunch contained three hundred sprays of lily of the valley, with a setting of five cactuses in one side. This was a great beauty. The bridesmaids all carried bunches of *Mermet* roses with lily of the valley at one side.

Violets have lately become the rage for wedding bouquets. A large bunch of white violets was made the other day for a fashionable wedding, and the bridesmaids all carried bunches of Neapolitan violets.

Some exquisite pieces have been made this month for funerals. It is now fashionable to place on the door bell of a house in mourning a cluster of *Smilax* which reaches to the ground, and then to put a quantity of rosebuds around the bell handle. The only mourning sign is a bunch of black ribbon. Hamit Bros. have made a cross of cattleya edged with violets, which was a beautiful piece. F. A. BENSON.

Tuberous Begonias.

I believe there is no plant that will grow in public favor for the next few years as will the tuberous begonia. We think now that it has about reached the height of par excellence, but there are many more crosses possible between the species, and there is no end of the variety of color, shape, style and leaf that can be produced by careful selection and hybridization.

It has all the elements of a popular plant, not requiring any particular skill to grow. We sow in flats, and in a short time it can be raised, and it is no trouble it, can be rapidly increased, especially by seed, therefore will be cheap and there is no need of a greenhouse to winter the plants in. The tubers can be taken up as soon as frost touches them and stored in any place that will keep a potato, they are sure to come out all sound in the spring.

The only rapid way of propagation is by seed. We sow in flats, two and a half inches deep, filled with coarse material in the bottom, with fine sifted soil on top, soak the soil by setting the flats in a tank of water or by watering with fine rose, but we find the soaking better. Sow the seed directly and sit a very light covering of very light material over them. We use leaf mould or rotted sphagnum. Cover with glass and paper, to keep dark, until the plants begin to appear, then remove the paper. Keep the glass on, but give air, which should be gradually increased until they are ready to prick off into other flats or pots filled with about the same soil as for seed, only not soaked. Water with fine rose after transplanting.

The past year we tried a plan that we like better than the paper and glass for



MR. MEECH'S HOUSE OF TUBEROUS BEGONIAS.

covering the boxes before the seed comes up. We sow as directed above and then take fresh long fibred sphagnum, place a covering of it directly on the seed (a close watch must be kept to remove this covering as soon as the seed begins to come up) then put the glass on and attend to air and shading from hot sun. Until the seed comes up we place the boxes where there is a moderate bottom heat, but as soon as they are well up, and in fact ever after, avoid all bottom heat and high temperature. The greatest trouble is from dampening off of young seedlings before transplanting, it seldom affects them afterwards.

They should be pricked out as soon as possible when they show signs of a second leaf; being too small to handle we pick them up on the point of a sharp stick dipped in water. Place them near the glass in temperature of 60° to 65°; shade from direct rays of the sun.

As soon as plants begin to crowd or touch they must be potted, or, if tubers are the chief object, transplant into flats and place in frames outside; keep close until they get a good start, harden by degrees, and then remove the sashes and no further attention will be required, only water, until frost cuts them down in the fall.

They can be planted directly into the soil in the beds, only we think we can cure the tubers better in flats by taking them in the greenhouse after frost and placing them around under the benches to dry off in the soil. We do not remove them from the flats until they are perfectly dry and the stems separate freely from the tubers. When taken green from the soil the skin is very tender and liable to get rubbed, which we find is an injury to the tuber; never rub the tubers, even when dry, they can be shaken clean of all dirt.

The propagation by cuttings is quite slow, as only the young shoots produced from the tuber, and sometimes a few side shoots, are produced from the lower portion of the main stem. Successive crops of cuttings weaken the tuber. Place the cuttings directly into two-inch pots filled with light soil, leaf mould, sand and light loam. As soon as rooted shift into larger pots. The tubers produced the first year are generally quite small, but it matters not, if no larger than a pea they will make fine plants the next year. The best plan is to winter the cuttings in the pots.

For growing under glass the tubers can be started in March, April or May. Start with a pot only a little larger than the tuber itself and shift on as fast as the roots fairly fill the pot, good plants can be grown in from 6 to 9-inch pots—of course they can be bloomed in any size pot (we have flowered them in 2-inch pots), but to produce specimen plants and flowers it will take pots at least as large as above stated.

For soil use good loam, made from well rotted sod, leaf mould and thoroughly rotted cow manure; if there is no sand in loam would add some. Pot rather firm, give plenty of water when in full growth and use the syringe until the flowers begin to appear. Do not try to start the tubers in bottom heat, let them start slowly or you will get too much top before you have roots to feed it, and then you may give up hope of a good specimen that season. Start slowly, give plenty of air when in full growth, without too much draught, plenty of light with shade from direct rays of the sun, temperature about 60°, in summer as low as possible by dampening the walks, and you are sure of success.

For planting out start in 3 or 4-inch pots and turn out as soon as weather will permit, same as other bedding plants.

The Englishmen say: "Fill your pots one-third full of broken crocks." In small pots we use nothing, in 5-inch and up simply place a piece of broken pot over the hole in bottom.

I will give a brief description of some of the best double varieties selected from our collection of over 200 varieties.

Alba fimbriata (Laing), pure white, finely fringed; *Alba rosea* (Laing), pink, white center; *Antoinette Guerin* (Crousse), white shaded cream, full flower; *Blanche Duval* (Arnault), creamy blush, guard petals rose; *Bouton d'Or* (Lemoine), golden yellow, dwarf plant; *Comtesse H. de Choissell*, fine salmon rose; *Clovis*, orange scarlet, branches freely; *Cloth of Gold* (Laing), clear yellow, dwarf; *Clemence Denisar*, rose, large flowers, increases rapidly; *Dinah Felix*, dark rose, feathered white, plant of full habit; *Dr. Masters* (Cannell), cream shaded blush, one of very best; *Dr. Franz Muller* (Van Houtte), rose shaded white, very large; *Felix Crousse* (Crousse), orange scarlet, large flowers; *Francis Buchner* (Crousse), cherry red; *G. Byersan*, salmon, fine habit; *Gabrielle Legros* (Crousse), sulphur white; *Glow* (Laing), bright scarlet, very best; *Gluck* (Van Houtte), brick red; *Goliath* (Lequin), shade crimson, large flowers; *H. Barnett* (Laing), dark crimson; *Ionia* (Laing), salmon scarlet, dark foliage, *Davisi* type; *John Poe* (Crousse), magenta rose, large and full; *King of Yellows* (Cannell), bright yellow, good for baskets; *Lafayette* (Lemoine), glowing scarlet, the most brilliant variety yet produced; *Lucy Closson* (Crousse), large white, fine shape; *Little Beauty* (Laing), pink, light center; *Lavoisier* (Lemoine), rose, very large; *Lord Loughborough* (Laing), bright scarlet, perfect; *Lord Randolph* (Laing), crimson scarlet, one of the best; *Louis d'Or* (Lemoine), yellow, dwarf, fine basket variety; *Louis Bouchet*

(Bouquet), brilliant orange scarlet, distinct, small flowers; Mrs. Plunkett (Cannell), soft salmon, one of the best; Mrs. Amy Adcock (Laing), salmon red, white center; Mad Arnoult (Arnoult), pink, deeper on edge; Prince of Battenburg (Van Houtte), rose tinted, yellow center, flowers largest size; Pavillon Janne (Crousse), straw yellow; Rosette (Malet), bluish edged rose; Renan (Lemoine), carmine rose, fringed flower, dwarf; Sultane (Lemoine), white, strong grower; Terre de Feu (Lemoine), dark pink, very large; Triumphant de Nancy (Crousse), clear straw yellow; Thalie (Lemoine), pure white, dwarf; Viole d'Or (Lemoine), yellow, dwarf; Wm. Bealby (Crousse), clear salmon, shell formed petals.

Perhaps I have extended this list too long, but when I look over the list and remember all the varied characteristics of the different varieties I am tempted to make it longer than shorter.

There is little danger of getting too varieties that are not distinct.

Charlevoix, Mich. F. J. MEECH.

View in Lincoln Park, Chicago.

We present herewith a pretty view in Lincoln Park, Chicago, with a fountain in the foreground, showing the luxuriant growth of the day lilies at the edge of the water, two handsome vases of plants at each side of the steps and beds of mixed plants, including hardy stuff which border the broad promenade in the back ground.



Winter Blooming Carnations.

[Extracts from paper read by Edwin Lonsdale before the Florists' Club of Philadelphia, December, 1890.]

I thank all the florists who have kindly answered questions, perhaps too freely asked, and who have forwarded flowers for examination and comparison. Many varieties sent represent new types, and others are improvements on old varieties.

Judging from the number of seedling carnations received within the past week or so new varieties will very soon be as plentiful as chrysanthemums.

Mr. John Thorpe says he will not be satisfied until the improved varieties will be as prominent among society people and flower lovers as any of the roses are to-day. Flowers shall be as large as the American Beauty rose, on erect stout stems, and their peculiar clove-like grateful fragrance will be more appreciated than ever. It would not surprise me if Mr. Thorpe has not something approaching the above even now. It is generally known that he has given us already Portia, E. G. Hill, May Queen, and several others.

Mr. Chas. T. Starr sent three of his recent productions. Golden Gate is a seedling from Hinz's White. Field of Gold is the pollen parent. It is a pure light yellow, and as I have seen this growing it can with confidence be recommended, as it is a robust grower and free bloomer. J. R. Freeman is the lightest colored crimson that I have seen; this is an advantage, as most of that class are considered too dark in color. It is also quite fragrant. It is a seedling from Anna Webb X Century. W. F. Drer is

the result of a cross between Buttercup and Century. It partakes of the color of the pollen parent; it is very large and deeply fringed.

From Mr. Charles A. Davis came a dark purple variety which has been named Ada. It is said to have the same parentage as J. R. Freeman (Anna Webb X Century). Note the difference; one is a crimson, the other a purple. Ada seems to be a very vigorous grower and it is a rich beautiful color.

Mr. Isaac Larkin sent Lady Rachel (Chester Pride X Crimson King), color purple; Morning Ray (Century X Scarlet King), in color it is similar to Century. Unfortunately these did not arrive in good condition.

From Mr. E. B. Jennings came four varieties: West End, dark pink; Mayflower, salmon pink, striped on a lighter ground; Snowbird, white, and Orange Blossom, which seems to be an improvement on Dawn. It is larger and not so formal in make up as the older Dawn.

From Mr. Lathrop Wight were received some fine blooms of Hector, a scarlet which, it is said, has been pronounced by an enthusiastic grower to be "the finest carnation in America." It certainly seems to be one of them. The Helen Galvin is similar in color to Grace Wilder, and if it should prove to be stronger in constitution than the older variety it will be an acquisition. Hesper is a yellow with faint stripes of red. Where Buttercup does well the newcomer seems to be its inferior, but as the old sort does not always give satisfaction in some localities, Hesper is worthy a trial.

Mr. Fred B. Lewis sent one of the most beautiful of the lot. It is named Nellie Lewis. It is said to be a sport from J. J. Harrison, which is an established favorite in many parts of the country. Nellie Lewis is a delicate pink striped with a darker shade. This of course makes it a striped variety, but it will be none the less valuable on that account, as en masse it is essentially a delicate pink.

In the report of the Baltimore chrysanthemum show mention was made of a carnation that was four inches across. I wrote Mr. H. Bauer, the exhibitor, for information, who sent the identical flower which was on exhibition for examination, and I regret to have to say that the variety appears to me to have no value whatever. The calyx bursts, and besides there is no form to the flower. It is nothing more nor less than a monstrosity. Since the paper was read Mr. Bauer has kindly sent a plant for trial. I hope I may be able to report more cheerful accounts later.

From Mr. L. Ussing a bunch of bright pink flowers came named Alexander. Judging from the flowers received it is a strong grower, though it is not very fragrant, and it has a slight tendency to burst the calyx.

Mr. S. S. Bain sent a few flowers of a white variety, very deeply fringed, but it was wilted so badly when received that very little could be determined about its size.

All the way from Illinois came a seedling in fair condition, much better than can be said of some flowers that came only a short distance. Too much care can not be taken in preparing flowers for shipping, whether for a customer or for examination. This variety came from John W. Kraft and was raised from a packet of seed bought from James Vick. It is a delicate pink in color, faintly striped with purple. This is an evidence that good varieties may be obtained through the seed stores.

Mr. H. R. Shelmire sent a bunch of fine flowers in which are found new types. Nellie Bly is heavily striped and deeply fringed. The petals are not numerous but they are inclined to be more flat than they are in the carnation flower in general. It is a seedling between E. G. Hill and Andalusia.

Edelweiss is a pure white sport from the striped Chester Pride. It appears to be a promising variety, it is of good size and fragrant.

Angelus is the result of a cross between Grace Wilder and Chester Pride. It is delicate pink in color, more of a salmon shade than is the pollen parent (Grace Wilder). It is a lovely color under gas light.

Dorothy claims the same parentage as the preceding, but it is darker in color.

Patti is a cross between William Swayne and Edelweiss (Chester Pride's offshoot). It has the markings of what might be called its grand parent, but the petals are rounded more and the flowers are altogether larger.

Mrs. Henry M. Stanley is said to be a sport from Century, and it is the most remarkable freak of nature that has ever come under my notice. Mr. Shelmire considers it to be his most valuable new variety. It seems identical with its parent excepting in color, which is orange slightly tipped with bright red. It is a very showy variety. But what makes it the more remarkable is that it is fragrant, whereas its sportive parent—Buttercup—is not. (Now eye scientists explain this phenomenon!)

Cesar has the same parentage as Nellie Bly. To me this seems to be the most valuable, on account of its stout erect stem. This is a characteristic which it behooves us to develop. It is of very little advantage to have a large flower unless the stem is strong enough to hold it upright.

No. 62 is very large—3½ inches in diameter—white striped pink. Its parentage is Lamhorn X Edelweiss.

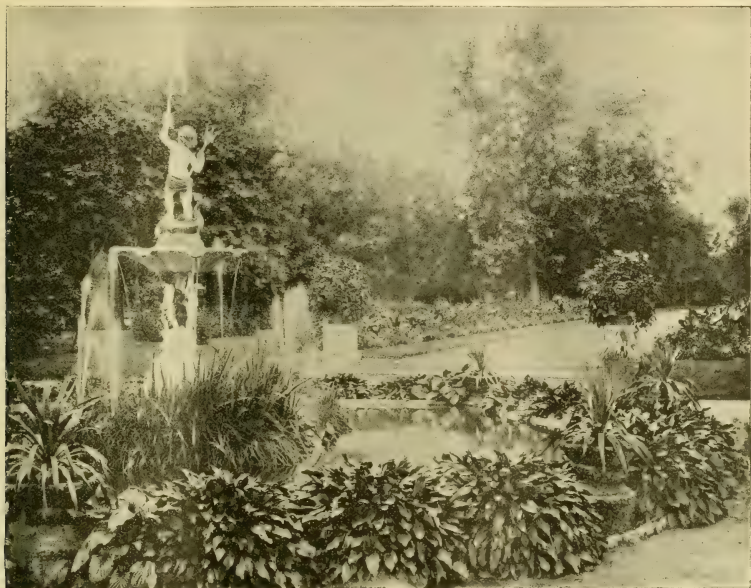
From Mr. George Hancock came blooms of his Starlight, which is a pale yellow creamy white. J. B. Jaquier, a bright yellow, imported from France. Fair Rosamond seems to be of the Grace Wilder type with perhaps more of a dash of salmon in its coloring.

Mr. George Creighton sent some of his Fred Creighton. The flower is larger and of finer finish than I have ever seen in Grace Wilder, which it resembles in color, and from plants that I have seen growing it has a robust constitution. A flower of Peachblow Coronet was also received, which Mr. C. said had been on the plant eighteen days. It is after the style of Hinsdale in marking, but the flower is much larger and apparently superior to the older variety in every respect.

From Mr. J. G. Burrow was received a bunch of a brilliant crimson variety which has been named Miss Emily Louise Taplin. It is lighter in color than most other crimson varieties, and it is evidently a copious bloomer, but the individual flowers are not so large as the ideal.

Mr. Edward Swayne is apparently on the high road to success in the raising of new varieties. He has now seedlings of which he can give the pedigree two generations back. He has some promising varieties of the delicate pink sorts. One seedling was open for the first time a few days ago, which Mr. S. describes as resembling Lamhorn in form with the delicate pink coloring of Grace Wilder.

From Mr. Thorpe I have received some promising varieties since the paper was read, one resembling the rose Baroness



VIEW IN LINCOLN PARK, CHICAGO.

Rothschild in delicate coloring, struck me as being exquisite. It is under number at the present time. Another which he has named Mrs. Lonsdale promises to be valuable. It resembles May Queen in vigor and other general characteristics, but it is much lighter in color yet distinct from the Wilder type. It is also deliciously fragrant.

I have not had the pleasure of seeing Mr. Fred Dörner's seedlings which are about to be distributed by Messrs. E. G. Hill & Co., but from the notices they have received through the *FLORIST* from time to time they must be beauties. I hope and expect to see them next year. Nor have I seen Simmons & Co.'s Day-break. From the descriptions of it there ought to be pleasure in store both for the grower, retailer and customer. It must be similar in color to Miss Joliffe. I was told a short time ago that Miss Joliffe was one of Mons. Alegatiere's seedlings. It came to this country by way of one of the London nurserymen, and was generally distributed by the late lamented William Bennett.

One thing is quite certain, the interest in carnations and carnation culture was never so keen in this country as it is to-day.

On the evening that the paper was read I received from Mr. H. E. Chitty the best flowers, collectively, that were received at all; this was owing to superior packing. Of course the distance they had to come was of some assistance, but Mr. Chitty did all in his power to have the

flowers arrive in as perfect condition as possible, and he certainly succeeded in having them arrive in as good condition as any flowers could possibly arrive from the distance by express. There were six flowers of Lizzie McGowan which were certainly fine. Its pedigree is Hinze's White X Peter Henderson. Let the experimenter go to the same source and it is a thousand to one if another variety identical with Lizzie McGowan is produced.

Lamborn, Tidal Wave, Grace Wilder, Silver Spray and its speckled sport, not named yet, also Buttercup, Mrs. Carnegie, Anna Webb, Orient and Pride of Kennett were also received and among the crimson the last named variety is the favorite with Mr. Chitty.

A variety rather appropriately christened Freckled Fairy was shown to me a day or two ago, but I was admonished to "keep it dark," so no more on that subject for the time being.

Lamborn Versus Hinze's.

When I made out my statement last week in compliment to Messrs. Lombard and Nicholson, a statement which doubtless will cause those astute growers to hunt up their thinking caps, it was also my intention at the same time to have given a little attention to the Messrs. De Witt Bros., of Bristol, Pa.

These gentlemen after reading a letter of mine on the carnation Lamborn which

appeared in the *AMERICAN FLORIST* of January 8, seem to have become all at once so thoroughly intoxicated over the little joke that they thought they had at my expense, that they lost no time in conveying to the readers of the *FLORIST* in a flourish what wonderfully successful growers they were. Now, Messrs. De Witt permit me to take your own figures and statements and show you just how successful you are, and where the little joke does not come in. You say in your letter which was printed in the *FLORIST* of January 29, that you have an oldrattle trap of a house 25x100 feet in which is planted 3,100 carnations producing 25,000 carnation blooms in three months which sold at a fraction over two cents each, realizing in the aggregate between \$500 and \$600, a pretty good showing for \$18 worth of coal you say. Now, gentlemen, we will suppose that you realized the largest amount, \$600, and that \$18 worth of coal was all of that commodity used. Permit to ask, was that coal the only item of expense incurred in the production of that 25,000 carnations? Is the 2,500 square feet of land valueless? Can you employ labor for nothing? Is your own time and labor worthless? Think this matter over gentlemen and if you have neglected to keep an expense account I would advise you to begin at once and keep one, and I am thoroughly satisfied that you will find it necessary every time to deduct at the very least 50 per cent as the cost of production, which will cause the \$600 to

dwindle just one half, leaving you only \$300 as the net revenue of your 2,500 foot house for three months.

Now, gentlemen, my 3,500 little Lamborn plants which occupy the two side benches of my new iron house and part of a side bench in another house, cover a surface of just 301 feet, just one third the surface of your 25x100 house, and while your big house gave you 25,000 flowers which netted you \$300, my little Lamborns gave me 10,000 flowers which netted me \$500, which was a much larger product for the space occupied than the Hinz's White gave you. Now, Messrs. DeWitt, I presume by this time it has begun to dawn upon yourself and others just where the little joke really comes in, but for fuller particulars on this subject you are respectfully referred to the statement which I dedicated to Mr. Nicholson in a previous issue. I will, however, say in connection with this subject and as an important item of expense in all operations of this kind, that your 25x100 foot greenhouse occupies exactly what we here recognize as a city lot, which if it was where my greenhouses stand would be worth \$2,500, the interest on which at 6 per cent would be \$150, and a 2 1/2 per cent annual tax would be \$75 more, making the yearly expenses alone on that amount of land to me \$225. This Messrs. DeWitt Bros. would alone make a big hole in the gross earnings of a greenhouse of that size, and which with the many other large expenses too numerous to mention would bring a man out at the little end of the horn, if he was not something of a successful grower as well as the possessor of some common sense ideas in ordinary business management. Now gentlemen I do not claim to possess the above qualifications in any marked degree, but for a number of years I have endeavored to make a little over and above all expenses and I think unless a man does that he had better be out of business.

And I would here suggest to the Messrs. DeWitt that if they expect to ever build iron, steel, or plate glass greenhouses they will find the most rigid and careful business methods necessary, and if they are satisfied that they can obtain better results from Hinz's White than any other white carnation, I think it would be folly for them to abandon it. I have abandoned that variety and I think have given good and sufficient reasons for so doing, besides demonstrating beyond all possibility of doubt that in doing so I have derived some substantial pecuniary results, which might not obtain with others differently situated. I think I have also demonstrated that sometimes and under some circumstances it is a good idea to look before we leap especially when we might possibly jump into a bad trap or fetch up against a bad snag.

H. E. CHITTY.

Paterson, N. J., Feb. 12, 1891.

Prizes for Carnations.

In looking over the schedule of the Pennsylvania Horticultural Society for 1891, I noticed with much satisfaction that carnations have been accorded the recognition to which they are entitled.

In addition to the collection cut flowers not over twelve of a kind, first and second premiums are offered for 25 scarlet, pink, white, striped on yellow ground, striped on white ground, yellow and crimson, and any other color, respectively. First premium \$2, second \$1. These are steps in the right direction. These premiums are to be competed for

both at the spring show, which opens Tuesday March 17 next, and also at the chrysanthemum show, which opens Monday November 9.

A large display of carnations is expected and the competition is likely to be spirited, as it is open to all. It will not only be a battle between the growers but also the different varieties in each color. Distinct classes of the light and dark pink colors might have been made to advantage, I think, but that is not of very great importance, as the lighter shades are most popular nowadays, and they no doubt will be the most generally exhibited.

In addition to the premiums offered for cut flowers by the society, specials to be known as the "Wentworth Prizes," are presented for competition by Dr. Edward H. Williams. They are open to all and are as follows: \$25 for the three best seedling carnations in pots in bloom, in three varieties, never before shown; \$15 for the best twelve plants of carnations, in bloom, six varieties; \$10 for the best collection of cut blooms of carnations.

Rule 4 in the schedule says: "Seedling plants for competition, excepting chrysanthemums, must be exhibited on their original stocks." It seems to me that all classes of plants are entitled to the same consideration as chrysanthemums. I can not understand what the object of that rule can be. It has outlived its usefulness and should be abolished.

Dr. Williams' idea no doubt is to encourage the production of new varieties, and the first mentioned prize is offered for the best new carnations not in commerce.

EDWIN LONSDALE.

Society of American Florists.

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SUB-COMMITTEE ON CHRYSANTHEMUMS

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WILLIAM R. SMITH, D. S. Botanic Garden, Washington, D. C., Chairman.
ROBERT GEORGE, Painesville, Ohio.
A. B. SCOTT, 10th and Catherine Streets, Phila.

The Nomenclature Committee will meet in session at the Queen Hotel, Toronto, at 9 A. M. the day before the S. A. F. convention takes place in that city next August.

Help Us.

The Executive Committee of the Society of American Florists have elected us a committee to look after the nomenclature of the plants dealt in by florists. These plants include not only roses, carnations, chrysanthemums and like popular classes, but also all manner of decorative plants, tender or hardy, that are included in florists' catalogues or used in indoor or outdoor or window gardening. We are required to see to it that these plants are

being bought and sold under their true names, and that no plant is being sold under a false name or under two different names.

Mistakes in the naming of plants are often accidental, for instance the labels may get changed in potting, moving or packing, but even misnaming in this way requires arrest, for the party who receives the misnamed plant, believing the name to be correct holds on to it and disseminates his stock under this name, thereby, though in perfect innocence of any wrongdoing, spreading a mistake and committing a breach of nomenclature. If this is your case or has been your case, or if you know of such a case, let us know, and we will try to mend it.

If you are growing two reputed varieties of plants under different names, but they seem to you to be identical, bring the matter to our attention, if we can we will aid you. A case in point: Carnation Portia and Carnation Brilliant although identical are grown and kept separate by some as if they were distinct varieties.

If you know of any instance in which a florist or other dealer misnames a plant intentionally for some selfish or mercenary motive, let us know that we may bring his sin to the knowledge of the world.

Please bear in mind that our mission is to help our brother florists all we can in preserving the proper names of decorative plants and flowers and in this line preventing imposition and fraud. And if you wish us to serve you faithfully and be of any benefit to you, please help us. How? By bringing to our notice any case of misnamed plants or the misnaming of plants under any circumstance that you know of.

Look upon us as your friends for it was to help you that we were elected to this work. If any one among you has in time past, done a little in rechristening plants, don't be scared, for there is balm in Gilead for every sinner that repenteth. But we be unto him who hardeneth his heart even if he be a member of the S. A. F.

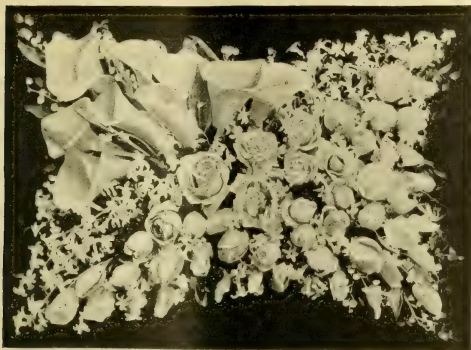
MY COLLEAGUES.

Who are they? Read their names! Florists of America you have just cause to be proud that such a dozen men could be found to espouse your cause. They stand in the front ranks of floriculture in the world, and are perfectly familiar with the true nomenclature of the several classes of plants assigned to them but they do not often have direct means of knowing of the wrong names under which plants sometimes travel, for no sane man would send a misnamed plant to any one of them knowing it to be misnamed. It therefore devolves upon us their brother florists and the public at large to furnish them with the information about the wrongly named plants.

Any information you may have in this direction please communicate by mail to the chairman of any of the sub-committees, or, in fact, to any member you please of the committee, or to myself personally, it will be taken equally good care of. WILLIAM FALCONER, Chairman Nomenclature Committee.
Glen Cove, N. Y.

Floral Pillow.

Our illustration is from a photograph sent us by Mr. L. S. Swanson, Duluth, Minn. As Mr. Swanson says, the arrangement perhaps differs a little from that usually followed. The excellence of the engraving renders a detailed description unnecessary.



FLORAL PILLOW.

Boston.

Since Lent came in there has been a very noticeable decrease in the demand for cut flowers, but on account of unfavorable weather or from other causes the supply is somewhat limited, and there has been no glut or bad break in prices as yet. Roses have dropped in price about 25 per cent. Violets and carnations are a little lower, but everything else remains stationary. There are a good many nice Jacqs coming in now and they sell readily at from \$2 to \$5 per dozen, according to grade. There are not many hybrids in the market. Hybrids have not sold very well here for the past two or three years, the number demanded being very limited as compared with that in New York, Philadelphia and other cities. Odds and ends, so called, such as English primroses, *Primula obconica*, *corcepsis*, *tropaeolum*, *daphne* and the like, seem to be constantly in demand, but such sales count up slowly, and the dealers' minds revert regrettably to the time when big roses at big prices were all the rage. Regarding *Primula obconica* there appears to be a sharp division of opinion, some florists showing quantities of it constantly in their windows, while others would as soon harbor a rattlesnake as permit *Primula obconica* to cross their threshold.

Mr. David Allan has a new and distinct variety of *Dendrobium nobile* of which he is justly proud, and which he has christened *Robinsonianum* in honor of his friend Wm. Robinson, gardener to Mr. F. L. Ames. Specially noticeable in this dendrobium are the length and breadth of the sepal and petals, and the coloration permeates the whole flower making it distinct from *nobile nobiliss*, while in form it surpasses elegans.

The lecture at Horticultural Hall on Saturday February 21, by Mr. W. F. Ganong, instructor in botany at Harvard University, was listened to by a large audience. The subject was "The Geographical Distribution of Plants." As the lecturer stated at the outset the subject was botanical rather than horticultural, but was nevertheless very interesting. He said that the three important

limiting or controlling agencies in the distribution of plants over the surface of the globe have been heat, moisture and geological changes, and he showed by means of maps and charts how the various forms of vegetation, arctic, temperate and tropical, had been distributed each in its proper latitude or altitude. The three great distributing agencies he said were natural methods of dissemination, the agency of man and geological changes. Regarding the latter he showed how in the glacial period the arctic and northern temperate plants had been carried to and beyond the equator, and stated further that indications point to the probability that all the flora of the earth originated in the northern hemisphere. Speaking of the agency of man in the distribution of plants he said it had been but a small, and in general an unfavorable influence, man's most noticeable accomplishment having been the formation of barrens and the dissemination of useless weeds, and that the most of the troublesome and noxious weeds in the home of the richest flora of the earth, viz.: the eastern portion of North America had been introduced from Europe.

The president announced that the date of the annual spring exhibition had been changed to March 31 and April 1, 2 and 3.

On the exhibition tables were two handsome azaleas, some hybrid roses and cinerarias shown by Robt. Blair, gardener to Mr. A. W. Spencer. Mr. Jas. Comely exhibited three large baskets of fine camellias, and from the Bussey Institute came a nice collection of forced spring flowers, among which were blooms of three native cypripediums—*acalea*, *pubescens* and *spectabile*, also a pot of *Trailing Arbutus*.

W. J. S.

New York.

This week flowers of all kinds are very plentiful and business quiet owing partly to the very disagreeable weather. Prices have dropped considerably in consequence.

At the monthly meeting of the Florist Club held the evening of the 9th Mr. Wm. Falconer read his very interesting essay "A talk with florists." In the course of his essay Mr. Falconer dwelt upon the

importance of the careful training of young florists and said it was the duty of the masters to encourage learning and good feeling among their employees. Mr. Falconer exhibited 107 different species of conifers in illustration of his paper; these all classified and named, were spread on long tables and were extremely interesting to all present. He also exhibited some fine herbaceous blooms, among which was a most beautiful frass of the new canna "Star of 1891," which Mr. Falconer claims can be forced and is equal to any gladiolus. It is a beautiful copper shaded crimson (a color badly wanted in winter flowers), and an acquisition with great possibilities before it. Some fine blooms of *Streptosolen Jamesoni* caused much comment, as also the beautiful flowering shrub *Toxicophleba spectabilis*, which is very fragrant and easy to force. Mr. Falconer's essay was one of the most instructive ever read before a meeting of the club.

This season's flowers have never been equaled in quantity or quality; every one seemed to have gone in for some specialty with the result that he finds a ready market with finer flowers. But the greatness of our business and its future possibilities rest not alone with the grower and fine flowers. Very much depends on the retailer—the artist of the business. There is no customer who will not ask his or her florist for opinions on taste and ideas of construction, and he can do much to rightly direct the customer's fancies.

To educate the public and for the purpose of encouraging the greater use of flowers by showing them at their best advantage and proper uses the New York Florist Club has arranged an elaborate programme for their spring show April 7 to 11. Decorations adapted to all occasions will be shown and all who possibly can should avail themselves of the advantage of a visit. The growers promise that the cut flower display will be extensive; the collections of pinks, picotees and carnations will be an exhibition in themselves. Send on your seedlings for this occasion as it will be an important show for the carnation. We are also promised some surprises in roses. Many new varieties will be shown to the public for the first time.

There were many large dinners given as "wind ups" before Lent, and many beautiful decorations were made for them.

Bogert had the decorations for the Harlem Club's dinner. The table was handsomely decorated with choice spring flowers arranged in an Alpine design.

Herman Kuhn had a large decoration for a dinner at Mrs. Hilliards on 5th avenue. The center piece was a large basket of A. Farleyense and cattleyas with sprays of *Phalenopsis amabilis* and *Odontoglossum cristata*, between. Garlands of Laing roses were placed among the dishes. The favors were handsome bunches of lily of the valley.

Alex McConnell was very busy recently with the decorations for the annual dinner of the Lincoln Republican Club at Delmonico's. This was one of the largest dinners of the season and the twelve tables used were handsomely decorated with center pieces of American Beauties, side baskets of Mermets and garlands of freesia. Mr. McConnell has waving above his beautiful store on Fifth avenue a very handsome flag in embroidered flower designs.

LeMoult, who is one of the cleverest advertising florists, is doing a very large business at present. His large establishment on the Bowery is known to florists all over the states. Mr. LeMoult thought

nothing of carrying a stock of from 10,000 to 15,000 roses in addition to many thousands of other flowers. He was the introducer of the Cape flower here. McConnell and Grimshaw have had several large wedding decorations recently. In one case all spring flowers were used, another being very artistically arranged with American Beauties, Magna Chartas, lilac and La France roses.

"Weir of Brooklyn" is happy and busy. Mr. Weir has the reputation of being the greatest flower buyer in the world, often buying as many as 20,000 roses a day. Wagon loads of flowers may be seen daily crossing the bridge to his large stores on Fulton street, Brooklyn, and it's a wonder to the trade and he says to himself, how he disposes of the many thousands of flowers he buys daily.

The florists' window are all dressed in spring's garb. Many very pretty and unique designs are shown in spring flowers. A very beautiful design seen recently was a basket of Ma Capucine roses and chorisemas with copper colored silk and satin ribbons to match.

Thorley is making an unusually fine display in his windows; great masses of lily of the valley, jonquils and tulips over which hang great bunches of orchids. No one can pass this display without stopping to admire it. It is estimated that Mr. Thorley sold from 15,000 to 20,000 violets on St. Valentine's day.

Violet foil is a novelty used by florists here for violet bouquets and boutonnieres.

Duchess of Albany is losing favor to such an extent that it is believed the growers will throw it out next season. The La France as grown by Mr. Christy, Mr. Connolly and others, leaves but very little room for it.

Mr. Frank Moore is cutting some fine Cusin roses at present. He has made a specialty of this rose for several years.

Mr. E. Asmus' houses are a sight worth seeing just now. Many thousands of all kinds of bulbous flowers are coming in; these in addition to his model roses are worth many a day's travel to see.

Mr. May's Mermetts and Brides are very fine and it is expected that his roses will be a feature of the exhibition.

Acacia pubescens is a beautiful flower and worthy of cultivation. There seems to be a scarcity of *Coleogyne cristata* this season.

Fitcher & Manda's exhibition of orchids and ornamental plants at their nurseries, Short Hills, N. J., was visited by many society people and prominent gardeners.

Siebrecht & Wadley intend holding their annual flower show at the Madison Square Garden on March 3.

JOHN YOUNG.

News Notes.

TOLEDO, O.—Mrs. E. Suder and daughter have returned from Germany.

BALTIMORE.—Gilbert H. Patterson the Waverly florist has sold his place. He will go to Europe and remain in Scotland.

WATERLOO, N. Y.—D. S. Pierson has bought the stock of the old Burton stand and will conduct the business of florist as well as nurseryman.

CONNEERSVILLE, IND.—C. A. Riemann has started in the florist business here with about 5,000 square feet of glass. His address is 1224 Grand Ave. and he should be added to the directory as F.

LEWISTON, ME.—Fire and smoke damaged florist Scribner's greenhouse and

contents to the amount of about \$300, February 11. No insurance. Damage to sash and glass was quickly repaired.

SAN FRANCISCO.—The third annual flower show of the California State Floral Society will be held in this city May 6, 7 and 8. Copies of the premium list may now be had from the secretary.

LANSING, MICH.—Mr. John A. Beckbissinger, formerly gardener for a public institution at Ionia, Mich., has started into business as a gardener and florist here. He is located one-quarter of a mile west of the Michigan school for the blind.

CLEVELAND.—Mr. C. Fries some time since bought the Geo. Beebe nursery at Rocky River. This has 13½ acres. Last fall he built four greenhouses, each 111 feet long, heated by steam. He also purchased four 50-foot greenhouses and contents of C. T. Schuren, at Berea, and has moved the entire plant over to the Rocky River nursery. Mr. Schuren is now his manager.

OTTAWA, ONT.—The annual dinner of the Florists' and Gardeners' Club was held February 5 and it was a most enjoyable affair. About 50 were present to discuss the excellent menu. The table decorations were very attractive. The after-dinner speeches covered a wide range of subjects and all were entertaining and instructive. Instrumental music and songs being happily interspersed. The occasion will long be pleasantly remembered by those present.

TOLEDO.—Thomas Temple, a member of the firm of John Wilson & Co., the Superior street florists was drowned recently while yachting. He was washed overboard during a squall, while returning with a party of friends from a cruise to Detroit. His body has not yet been recovered. Mr. Temple was 35 years of age, was married and leaves a widow and two children. He was an enthusiastic floriculturist and was a very popular man.

In 1889 he was elected a member of the Board of Education and stood high in the estimation of his colleagues as one of the most active and intelligent members of the board. His untimely death is mourned by a wide circle of friends.

SITUATIONS, WANTS, FOR SALE

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash on accompanying order. Plant ads. not admitted under this head.

SITUATION WANTED—By a first class florist and gardener, married; best of references. Private place preferred. Address B. H. care Am. Florist.

SITUATION WANTED—By young man; good rose, carnation, grape and asparagus grower. Address J. W. care Jas. DeWolfe, 242 5th Ave. N. Y. City.

SITUATION WANTED—By gardener; single man, in charge of plant houses; experienced in rose and grape growing, has 11 years' experience. Address A. McW. Box 16, Elmira, N. Y.

SITUATION WANTED—By a first class German gardener and florist; middle age; 12 years' experience. Can furnish best of references. Private place preferred. Address Y. Z. care Am. Florist.

SITUATION WANTED—As gardener or manager; experienced in forcing fruits and vegetables, plants, shrubs, berries, etc., best of references. Furnishing private place preferred; age 40. Address D. care American Florist, Chicago.

SITUATION WANTED—As headgardener on private place, by Scotchman; married; aged 32; 12 years' experience in all greenhouse work. Strictly reliable. Best of references. Address THOMAS WALLIS, 712 George St., New Haven, Conn.

SITUATION WANTED—By young Scotchman; thorough knowledge of gardening in its different branches, and of all kinds of plants, shrubs, etc., private or commercial. Good references. Mention salary. Address Box 112, Great Neck, L. I., N. Y.

SITUATION WANTED—In Eastern Indiana or Western Ohio by a practical florist with a few and successful propagator and grower of general greenhouse stock. An competent and reliable of place. Address NIXON H. GAYO, Richmond, Ind.

SITUATION WANTED—By a first class florist, responsible position; 14 years' experience. Good rose and general grower of all greenhouse plants. General stock of greenhouse plants. References. Address FLORIST, 717 Page St., Toledo, Ohio.

SITUATION WANTED—By a German; married; 10 years' experience in general greenhouse work, experienced grower of palms, ferns and tropical plants. Northern States preferred. State particulars, etc. Address J. H. care Lake School, St. Lake School, Mich.

SITUATION WANTED—Any firm desiring a first class rose grower, etc. I wish to recommend my manager as an about to take charge of my place. Address J. H. care Lake School, St. Lake School, Mich. position worthy of his ability.

SITUATION WANTED—By a reliable assistant; single; 10 years' experience in general greenhouse work; wishes situation by middle of March either private or commercial place. Address J. H. care Lake School, St. Lake School, Mich. position worthy of his ability.

WANTED—An industrious young florist with good knowledge of general greenhouse work. Address Box 10, care American Florist, Chicago.

WANTED—An energetic, competent florist to grow general stock for commercial place and can handle them. Address Box 30, care Am. Florist.

WANTED—Bookkeeper and correspondent, one who can take care of all correspondence, etc. Give references. Lock box 1618, Philadelphia, Pa.

WANTED—Competent commercial florist; good knowledge of general greenhouse work. Must address with terms and references. Address E. W. WACHENDORF, Atlanta, Ga.

WANTED—An able working gardener, to take charge of general greenhouse work. Must have experience in growing all kinds as well as keeping records. Address HENRY A. DREKE, Philadelphia, Pa.

WANTED—A practical florist to grow roses, carnations, etc. Must be able to handle either married or single; state salary and references. Address G. A. KACHAM, 54 Grand Ave., Detroit, Mich.

WANTED—A practical gardener, thoroughly posted in all kinds of greenhouse work. Must be able to handle either married or single; state salary and references. Address G. A. KACHAM, 54 Grand Ave., Detroit, Mich.

WANTED—By middle of March, German, married man to take charge of cut flower department of commercial place. Must be able to handle either married or single; state salary and references. Address G. A. KACHAM, 54 Grand Ave., Detroit, Mich.

WANTED—A competent party to take charge of 11,000 feet under glass, in a town of 8,000 to 10,000 population. Must be able to handle either married or single; state salary and references. Address G. A. KACHAM, 54 Grand Ave., Detroit, Mich.

FOR SALE—Florist's store in a large city established seven years in good locality. Lease of business, reasons for selling explained on application. Address M. G. H. American Florist.

FOR SALE—Both of our retail flower stores, No. 50 W. Madison St. and 507 W. Madison St. (near Wagon Ave.) rent or write for particulars. Address FOREST GLEN FLORALS CO., 271 14th St., Chicago.

FOR SALE OR RENT—Two greenhouses with walls of general stuff new. Cheap. Lease of ground for 3 years. Will sell complete outfit including hoses, waxes, and tools. For full particulars address N. O. P. care American Florist.

FOR SALE—At a bargain, 400 feet of 4-inch pipe with joints, elbows and T's; 2 No. 1 Weathered heavy iron pipes, 10 feet long, and 10 feet of 4-inch material in a greenhouse 100x18. Address PAUL KROHN, 175 N. Clark street, Chicago.

FOR SALE—Five greenhouses, good shipping facilities, railroads leading in sixteen directions one of the best openings for a florist, capable man property free from all incumbrances. Some capital required, good security for balance. Address X. Y. Z. care American Florist, Chicago.

EXTRAORDINARY BUSINESS CHANCE FOR SALE OR RENT.

A splendid commercial greenhouse, comprising 30 houses, with 31,000 square feet of glass, well stocked, and 10 acres of ground in Chicago, 7½ miles from city business district. Every thing in place and convenient; good water supply and heating apparatus. Fine residence, ample grounds, and a fine house and storehouse on grounds. Owners have other business that require their entire attention. For full particulars address J. H. care Hamill, 297 30th Lake St., Chicago.

Florists Take Note FOR RENT.

A square of ground fronting on Market street, Philadelphia, Pa., 500x214, to Ludlow street. A very desirable location for a florist. Apply to

THE REAL ESTATE INVESTMENT CO., 731 Walnut St., Philadelphia, Pa.

Callicarpa Purpurea.

I was glad to see Mr. William Falconer calling attention to the merits of the *Callicarpa purpurea* in his "Notes from Canada," for it is truly a beautiful bush. I had never thought of it as a pot plant, but have often wondered why a shrub so ornamental as this is should be almost unknown in collections. One thing against it is its shabby appearance in early summer. With us it dies back nearly one half in winter, which gives it an uninviting look, unless pruned back when spring comes.

Another hardy plant of great beauty and attractiveness in early spring is *Azalea amena*. Quite small plants bloom, and little fellows in 3 and 4-inch pots generally find a ready sale. As many of your readers know, the flowers are of a rosy pink, the foliage quite small and evergreen.

I saw last summer some very pretty plants in pots of the *Spiraea Bumalda*, a rather new one. It is a dwarf grower, bearing rosy pink flowers, in flat heads. Unlike any other one, and much in its favor, it flowers all summer long, especially profuse if the decaying heads are cut off as fast as perceived. As Mr. Falconer says wholesale growers do not want these things, but those who do a local trade do, as attractive plants, such as these are, and which can be planted out after flowering, can be disposed of.

JOSEPH MEEHAN.

YOU CAN NOT afford to take any chances on your spring advertising. The only way to reach the WHOLE TRADE is through the AMERICAN FLORIST.

SEND YOUR adv. now for our special Easter number of 40 pages, March 19.

Our stock of this variety will all be handled at our own greenhouses so they may be in the best possible condition when they leave our place, on the same date as sent out from Boston—April 15. For this reason customers in OUR TERRITORY will be believe do well to secure their supply either directly from us or through jobbing agents using our stock. We will give names of such on application.

J. C. VAUGHAN, CHICAGO.

IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best results in the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

A LOT OF**YOUNG ROSES.**

BON SILENE, QUEENS'S SCARLET, LA PRINCESSE VERA, and a variety of others.

CARNATIONS—Hime's White, 4-inch pots, \$6.00 per 100. **BEGONIA REX**, \$8.00 per 100. **CALLAS**, \$8.00 per 100.

WM. JACKSON, Sarnia, Ontario.

ROSES.**WABAN, SOUV. DE DR. PASSOT, MME. PIERRE GUILLOT,**

And all the other NEW and standard varieties of Teas; also all the best varieties both new and old of the Hybrid Remontants including the variety which

MR. JULIUS ROEHR'S

has forced so successfully for the past three years, and which has proven itself by far the best variety of this class for very early forcing yet introduced; also all the best varieties of

HYBRID TEAS, CHINAS, and BOUBONS,

For Forcing, Bedding, etc., etc. All of which I now have an EXTRA fine stock at prices as low as any one can produce such stock for.

MY NEW TRADE LIST in now ready and will be mailed to all applicants.

JOHN N. MAY, Summit, N. J.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.
THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices Now Ready.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street, - - - SAN FRANCISCO, CAL.

SEEDS

ROSES Seeds, Plants, Shrubs, Vines, Fruit & Ornamental Trees, Etc.

CATALOGUE FREE.

Over 150 pages illustrating and describing one of the largest and best assorted stocks of Seeds, Trees and Plants in the U. S. Best value for the money in our Tested Novelties and Special Low Priced Collections.

37 YEARS. 25 GREENHOUSES. 700 ACRES.

THE STORRS & HARRISON CO.,
Painesville, Ohio.

MY SPECIALTIES ARE THE ROSES**MME. CUSIN**

AND

Mme. de Watteville,

for which the

SUNNYWOODS GREENHOUSES

have become famous.

I will have a limited number of plants of the finest stock grown of the above varieties; all strong plants.

FRANK L. MOORE, Chatham, N. J.

Mention American Florist.

H. P. Roses, 2 year, strong . . . \$15 per 100
H. P. Roses, 1 year . . . 10 "
B. Belle and S. Queen, 2 year, strong . . . 10 "
B. Belle and S. Queen, 1 year . . . 8 "

MCCREA & COLE, Battle Creek, Mich.

ROSES.

PERLE DES JARDINS, NIPHOTOS, C. MERMET, THE BRIDE, CORNELIA COOK, PAPA GONTIER, MARIE GUILLOT, AGGRIPIA (Syn. Queens Scarlet), ARCH DUKE CHARLES, S. D'UNAMI, MME. F. KRIGER, DUCHESSE DE BRABANT.

In 2½-in. pots, price \$4.00 per 100; \$40.00 per 1000. Own selection \$35.00 per 1000.

CLOTILDE SOUPERT, a fine new White Rose, \$2.00 per 100.

Onychium Japonicum, a fine Fern for cut flower work, 4-in. pots, \$10.00 per 100.

Ficus Elastic, 4-inch pots, \$2.50 per dozen.

Cycas Revoluta, 6-inch pots, \$15.00 per dozen.

Cycas Revoluta, larger plants, \$20.00 per dozen.

The roses are all fine healthy plants, with plenty of roots—will give entire satisfaction.

Address **A. LAUER,**

1210 East Broadway, Louisville, Ky.

CUT SMILAX.

I make a specialty of Smilax, and am prepared to fill orders promptly. Price, 30 cents per string till May 1st. Quality A. L. **JOSEPH E. BONSAULT,** Telephone No. 15. 308 Garfield Ave., Salem, Ohio.



THE NEW ROSE

WABAN

This very valuable rose originated at the Waban Conservatories of E. M. Wood & Co., Natick, Mass. It is a *SPORT* from Catherine Mermet and identical with that variety in every characteristic, excepting color, which is a rich, deep, **BRIGHT PINK**; it sustains the same relation to its parent as Duchess of Albany does to LaFrance. The only objection to C. Mermet is its frequently pale, insipid color in cloudy weather; experience has shown that the **WABAN** retains its deep rich color in all kinds of weather; it will, without doubt, prove to be as valuable as **THE BRIDE** which is also a sport from the same magnificent variety.

IT HAS ALREADY RECEIVED THE SILVER MEDAL

of the Massachusetts Horticultural Society; of the Pennsylvania Horticultural Society, and **Certificate of Merit** from each of the Societies in this country and Canada where it has been shown,

Ready for Distribution on April 15th, 1891.

Orders booked now, will be filled in strict rotation.

Extra good plants from 2½-inch pots.

1 Plant, \$ 1.00	250 Plants, \$100.00
12 Plants, 9.00	500 " 175.00
50 " 30.00	1000 " 300.00
100 " 50.00	

From 4-inch pots.

1 Plant, \$ 1.50	50 Plants, \$ 40.00
12 Plants, 15.00	100 " 75.00
25 " 25.00	

The following Agents have been appointed to sell the Rose in the respective territories given below:

W. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th & Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

NO SPECIAL POSITION GUARANTEED.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, seedsmen, and dealers in flowers containing to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A PHOTOGRAPH of their house of Hinze's White carnations has been sent us by Messrs. DeWitt Bros., Bristol, Pa. The house is a wide one with four benches, two narrow ones at the sides and two wider ones in the center with a walk between them. The plants are in splendid bloom and covered with buds. The house is evidently the one referred to by the Messrs. DeWitt in their communication in a previous issue, and the crop of flowers is there all right. They also send us a box containing several large bunches of blooms of several sorts, all on very long stems. The blooms are of fair quality, the Hinze's being of good size, but the Wilders and others are rather small, though the stems of all were of extra length. Though not extra they may be called good average blooms.

AS A SAMPLE of the prodigality of florists a subscriber sends us a telegram received by him. It is an order for cut flowers and contains over fifty words, fully half of which were unnecessary and confusing, and the whole could have been far more intelligently given in less than ten words by the use of the S. A. F. code. Our correspondent says: "Money seems to be no object to some florists," and as the sense is so obscure in spite of the number of words used, he aptly names it a "Cipher telegram."

THE S. A. F. Committee on Nomenclature as reorganized is given in another column. It is certainly an able committee and will do effective work if the needed assistance is given by those interested and every plant grower is interested. If every reader of the FLORIST will do his share by reporting to the committee all cases of misnaming, either intentional or accidental, that he may know of, the work for which the committee was appointed will go rapidly forward.

A COPY of the American edition of *Lindenia* for February 1891 has been received from the publisher, Mr. Lucien Linden, Brussels, Belgium. It contains beautifully executed colored plates of *Cattleya* Rex, *Cochlidora* Noeziana, *Peristeria* aspersa and *Cattleya* Warocqueana var. *amethystina*. The text is in English. The American edition of this elegant publication will be gladly welcomed by all lovers of orchids.

WE HAVE received two remittances of one dollar each in which the senders have neglected to give any information as to their identity or whereabouts. One—a postal note—is from Grand Rapids, Mich., and the other a dollar bill enclosed with one of our subscription blanks not filled out. The post mark on the envelope is indecipherable. Will the senders please supply names and addresses?

THOSE WHO HAVE either A. J. Binley or A. J. Bailey on their catalogue lists at Albany, N. Y., should erase them and save their catalogues. A. J. Binley, Glens Falls, N. Y., is correct.

CIRCULATE your spring trade lists in our EASTER NUMBER, to be issued March 19 and to contain forty pages. That number will be a beauty.

Coming Exhibitions.

March 17-20, Philadelphia.—Spring exhibition Pennsylvania Hort. Society.

March 25-26, Montreal.—Spring exhibition Montreal Gardeners' and Florists' Club.

March 31-April 3, Boston.—Spring exhibition Mass. Hort. Society.

April 7-11, New York.—Spring exhibition New York Florists' Club.

April 14, Los Angeles, Cal.—Rose show Southern California Floral Society.

April 16-17, Syracuse, N. Y.—Spring exhibition Central New York Hort. Society.

May 6-8, San Francisco.—Annual flower show California State Floral Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

Philadelphia.

A short round among the growers shows an abundant stock of Easter stuff. Easter is of course the event of the season and is becoming more generally celebrated each succeeding year. It certainly gives an impetus to every branch of the business and may be truly called the florists' harvest time.

W. K. Harris has a very large stock of hydrangeas. He does this plant very well, they look very promising, being short, bushy plants and full of buds just showing. The genista is also a favorite, and plants of this beautiful Easter flower are to be seen in all sizes and conditions of bloom. Of course the lily forms a large portion of the stock and they are seen in all stages of growth; they are mostly from Bermuda-grown bulbs. The lily disease has made its appearance among them and this will carry off quite a few; the stock generally, however, looks very fine and will make a great show when in flower.

Mr. Harris has probably the largest stock of *Ficus elastica* variegata in this country. He has been working it up for two or three years past and will soon be able to supply the demand which this beautiful plant will create. It seems to grow quite as freely as the common ficus and will be a welcome addition to the stock of variegated foliage plants. He has also a fine stock of the common ficus.

J. W. Colflesh has a fine general assortment of Easter plants. Among the rest we notice some nice plants of the yellow English primrose, a rare plant in this market.

George Anderson has a fine lot of hydrangeas coming on. His specialty is the roses for cut flowers, and hydrangeas are the only plants he handles except possibly

young roses. He has a fine house of Brunners and Laings that will be in about the second week in March and two others that will come later.

Robt. Craig's stock is very fine. His place is worth traveling miles to see the week before Easter. His lilies are very fine; he says the best he has ever had and they certainly do look well. Two large houses are filled with them, one all Harris and the other longiflorum. They are all short and stocky with an abundance of broad glossy leaves and run from four to eight buds to a plant. In another house is a nice batch of rhododendrons, while azaleas have a house to themselves and will be very fine. We notice a lot of ixias or Cape bulbs, ten or a dozen in a 6-inch pot; these are new about here and will be quite a novelty as they make a beautiful show when in flower.

Pot roses will be very fine and in great variety. Mr. Craig makes a specialty of pot roses and his rose houses at Easter are a show of themselves. We noticed some fine plants of *Pteris nobilis*; this promises to be the pteris, and is certainly the prettiest fern of its class.

Jacob Becker has a fine stock of Easter stuff. Last season he rented an empty store in the center of the city and retailed most of his stock. We believe the venture proved quite successful and the store was kept stocked until planting out time.

For the past week business has been dull if we except the demand caused by the Astor-Willing wedding. The papers of the day were unanimous in their opinions as to the price of the decorations which were put down at \$20,000, but \$2,000 would be about right. A great deal of smilax and asparagus was used, as were also orchids and hybrid roses.

Flowers of all kinds are very plentiful, the unusual warm weather having forced the buds in far in excess of the demand.

P.

The Willing-Astor wedding made business quite lively early in the week. More flowers were used on that occasion than has been done at a similar ceremony for a very long time. Orchids and fine roses were used in profusion. Pennock Bros. who had the matter in hand had to work nearly all one night in order to have every thing ready on time.

Trade is getting somewhat flat just now. It is to be hoped that since some of the society people have dared to break through the old tradition of not getting married during the Lenten season others will follow suit and break up the old notion.

There are some well grown plants of *Erica Wilmoreana* in some of the florists' windows. They are very beautiful. They are not grown in or near this city. I am informed they come from some place on Long Island.

I saw a house full of Snowdon carnations the other day and they were well set with buds and we were assured that this old "stand-by," as one of the proprietors affectionately termed it, had been flowering freely all winter. The flowers, however, were rather small. Hinze's White, it is said, does not do well here. Some Tidal Wave carnations growing here were pronounced Century, but they are not, they are the true Tidal Wave. And it is just here where this confusion sometimes comes in, the lack of discriminative powers in the individuals who are growing the different varieties. I have no doubt it will surprise practical carnation growers to learn that one of the varieties above referred to should be taken for the other.

Q.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO.
(Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.
All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. — WIRE WORK A SPECIALTY.

C. H. FISK, WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES, 116 Dearborn Street, CHICAGO. OPEN NIGHTS AND SUNDAYS. WIRE DESIGNS IN STOCK.

E. J. HARMS, Wholesale Dealer in CUT FLOWERS, And Florists' Supplies. 89 Wabash Ave., CHICAGO. Store Open: Nights 9 P. M.; Sundays 2 P. M.

CUT FLOWERS. The Western Trade Solicited. Write or Telegraph.

SMITH FLORAL CO.,
77 7th Street S. - Minneapolis, Minn.

O. W. Frese, Wholesale Cut Flowers, 66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
given to shipping orders.

C. STRAUSS & Co. GROWERS OF CUT FLOWERS. —) WHOLESALE ONLY. (— SPECIALTY.—Filling Telegraphic Orders. WASHINGTON, D. C.

SPECIAL OFFER FOR CASH, TO MAKE ROOM.

Each
KENTIA, Bel. and Post, 3 ft. high, 4 to 5 char-
acter leaves..... \$3 00
" Bel. and Post, specimens, 3½ ft. high, 5 to 6 character leaves..... 5 00
" Bel. and Post, 2½ to 3 ft. high, 3 to 4 character leaves..... 2 00
" Bel. and Post, 2 to 2½ ft. high, 3 to 4 character leaves..... 1 50
Aspidistra variegata, 5 to 6 leaves..... 1 50
Fandanus Veitchii, fine plants, 5 and 6 in. pots, 1.50
Cocos Weddelliana, 2 feet high..... 1 50
All the above grown cool and in fine condition for immediate use.

AZALEAS in best varieties, plants 15 inches in diameter, well set with buds.

E. W. WEIMAR, Ml. Vernon, N. Y.
Per 100
Cyperus Alternifolius, strong, 2½ in. \$5 00
Alyssum, dwarf in bloom, 2½ in. 3 00
Coleus Golden Bedder, 2½ in. 3 00
Rose Geraniums, 2½ in. 3 00
Callas, 10 in. a flat..... 3 00
JOHN T. HUTCHINSON, Elizabeth, N. J.

Wholesale Markets.

Cut Flowers.

BOSTON, Feb. 23.	
Roses, Hybrids.....	50 00 to 75 00
" Niphetos.....	5 00 to 5 00
" Gontiers.....	4 00 to 6 00
" Perles, Superb.....	5 00 to 6 00
" Mermets, Brides.....	7 00 to 10 00
" Woodtons.....	5 00 to 6 00
" La France.....	8 00 to 12 00
" Jacqs.....	20 00 to 40 00
Carnations.....	1 00 to 2 00
Violets.....	50 to .75
Pansies.....	1 00 to 2 00
Heath, per bunch.....	50 to .75
English primroses.....	12 to .17
Valley.....	4 00
Tulips.....	4 00
Callas.....	2 00
Freesia.....	2 00
Calas.....	8 00
Harrill.....	12 00
Asparagus plumosa.....	50 00
Adiantum.....	1 50
Smilax.....	16 00

PHILADELPHIA, Feb. 23.	
Roses, Beauties.....	5 00 to 50 00
" Brunners.....	75 00
" Laing, Albany.....	8 00 to 10 00
" Laing, Laisets.....	60 00
" Woodtons, Bennetts.....	8 00 to 10 00
" Perles.....	4 00 to 5 00
" Hostes.....	5 00
" Hostes.....	6 00 to 8 00
" Hostes.....	4 00 to 5 00
Valley.....	4 00 to 5 00
Daffodils, tulips.....	4 00 to 5 00
Carnations, long.....	1 00 to 1 50
Callas.....	1 00
Violets, double.....	.75 to .75
Adiantum.....	20 00
Adiantum.....	1 00

NEW YORK, Feb. 23.	
Roses, Beauties.....	5 00 to 50 00
" Brunners.....	75 00
" Laing, Albany.....	8 00 to 10 00
" Laing, Laisets.....	60 00
" Woodtons, Bennetts.....	8 00 to 10 00
" Perles.....	4 00 to 5 00
" Hostes.....	5 00
" Hostes.....	6 00 to 8 00
" Hostes.....	4 00 to 5 00
Valley.....	4 00 to 5 00
Daffodils, tulips.....	4 00 to 5 00
Carnations, long.....	1 00 to 1 50
Callas.....	1 00
Violets, double.....	.75 to .75
Adiantum.....	20 00
Adiantum.....	1 00

CHICAGO, Feb. 23.	
Roses, Bon Silens.....	2 00 to 3 00
" Perles, Niphetos.....	4 00 to 6 00
" Mermets, Brides.....	6 00 to 8 00
" Bonnets.....	8 00 to 10 00
" Gontiers.....	4 00 to 5 00
" Bonnets, Woodtons.....	4 00 to 5 00
" La France.....	6 00 to 8 00
Carnations, short.....	1 00
Carnations, long.....	1 00 to 2 00
Carnations, long, fancy.....	2 00 to 3 00
Callas.....	4 00 to 5 00
Tulips.....	4 00 to 6 00
Roman hyacinths, narcissus.....	1 00 to 1 50
Adiantum.....	1 00 to 1 50
Violets.....	1 00 to 1 25
Callas.....	10 00 to 15 00
Harrill.....	10 00 to 15 00

WM. J. STEWART, Cut Flowers & Florists' Supplies —) WHOLESALE. (—

67 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & CO. Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill order.

AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.

PLANTS FOR CUT FLOWER GROWING Roses, Carnations, Chrysanthemums, Ferns.

I grow all the best varieties for this purpose. Wholesale list now ready. Send for it before buying your stock for planting.

M. A. HUNT, Terre Haute, Ind.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,
NEW YORK.

LILY OF THE VALLEY,
And the Choicest ROSES for the
fall and winter season.

W. S. ALLEN, Wholesale Dealer in Cut Flowers

35 EAST 23rd STREET, NEW YORK.
[ESTABLISHED 1877.]
Price List sent upon application.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS, No. 32 W. 30TH ST., NEW YORK. Orders to be shipped will receive prompt attention.

FRANK D. HUNTER, WHOLESALE DEALER IN CUT FLOWERS 51 West 30th St., NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST 53 WEST 30TH STREET, NEW YORK.

A. S. BURNS. J. I. RAYNOR. BURNS & RAYNOR, WHOLESALE FLORISTS, 11 West 28th St., NEW YORK.

J. M. McCULLOUGH'S SONS, Wholesale Commission Dealers in CUT FLOWERS— 134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES:
ROSES, CARNATIONS AND ORCHIDS.

LaRoche & Stahl, Florists and Commission Merchants

—) CUT FLOWERS, (—
1237 Chestnut Street. - PHILADELPHIA.
Consignments Solicited. Special attention paid to
shipping. Mention AMERICAN FLORIST.

ELLISON & KUENN, —) WHOLESALE (— FLORISTS, 1122 PINE STREET, ST. LOUIS, MO.

CONSIGNMENTS OF SMILAX, CALLAS
and ADIANTUMS WANTED.
THE WISCONSIN FLOWER EXCHANGE.
135 Mason Street, MILWAUKEE, WIS.

The Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

James H. Munson.

TO THE AMERICAN FLORIST:—The Chicago Times of the 16th of January last states: "James H. Munson was found dead in his room yesterday morning, etc., etc., the verdict of the jury was the cause of his death was heart disease."

Mr. Munson was well and favorably known in the seed trade for some years, first with Hiram Sibley & Co., Rochester and Chicago, later with Joseph Breck & Sons, Boston. He was a merry, good-natured, kind hearted man; smart, quick to see and comprehend, always on the alert, wide awake, witty, always ready with a joke or a kind word, or to help any one who called for his assistance. He was a business man of great ability, his executive skill as shown in the management of a large and complicated seed business was well known. But he will be chiefly remembered for his good fellowship with all he came in contact, both in a business way and socially.

Amongst his fellow workers especially, his memory will be lovingly cherished, for he had the rare gift of being able to enlist the best efforts of those under him by kindness, no harsh words were ever used by him, he ruled by kindness alone. His early death is rendered more sad by the fact that the cloud of misfortune, which darkened his career for a short time, seemed in a fair way to be dispelled.

Lately he was engaged in a position of trust in Chicago, was reported to be doing well and likely to come to the front again. But it was ruled otherwise, and so passes another of the lights of the seed trade. The list has been heavy the past few years; Peter Henderson, Hiram Sibley, John Briggs, Isaac Young, James Reid, Sidney Wilkinson, Munson, Rudell, Isaac Vanderbilt and others. M—

Mr. Wm. C. COMSTOCK the Veteran seedsman of East Hartford, Conn., now in his 81st year, had the misfortune to break his leg recently. He is healthy and full of pluck, doing well and all hope will soon be out again. Mr. C. commenced to grow seeds near Hartford 55 years ago, and probably knows more to-day about seeds and vegetables than any other man in America. He was the founder of the house of Comstock, Ferre & Co.

Mr. F. BENARY expects to visit America in April.

MARCH 19 we shall issue a 40-page number, which will be most beautifully illustrated and will contain a number of special features which will make it of unusual value.

G. J. MOFFATT,
Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.

Samples and prices on application. When writing for prices, please state size and quantity wanted.

Mention American Florist.

3,000 Gen'l Jacq. Rose plants, 4-in. pots, per 100 \$0.00.
Golden Outlines rooted, Verachaffel, Golden Beder, Golden Verachaffel and Sunset, per 100 75cts.
per 1000, \$9.00.

JOHN RECK, Bridgeport, Conn.

Rarest and Finest Novelties

IMMENSE CLUSTERS of magnificent large blossoms; as richly colored as orchids; beautiful flowers the first year from seed; blossom all the summer;—this is

CROZY'S CANNA,
a plant that should be in every garden.

GOLDEN GATE POPPIES,

fascinate with dazzling variety and brilliancy. Gorgeous flowers of every conceivable shade.

FRINGED STAR PHLOX are odd novelties of surpassing beauty. Forty varieties of star-like fringed flowers.



ECKFORD'S NEWEST SWEET PEAS

are decided novelties. Superb varieties never before equaled. For 13 Two Cent Stamps we will send all four of above and PANSIES. Any two and PANSIES for 8 Two Cent Stamps. These special offers are for the purpose of making new friends for Burpee's Seeds, the kind that grow; hence Burpee's mail business is largest.

PANSY

With each order for above we will send Free one package of

SEEDS

IMPERIAL PRIZE PANSY SEEDS, special selection, that will grow flowers of perfect form and large size.

FREE!

If you have a garden, write for **BURPEE'S FARM ANNUAL for 1891**. 168 pages, colored plates; tells all about the best garden and flower seeds, Rare Novelties that cannot be had elsewhere, and how to get valuable premiums. Sent Free. Write at once and name this paper.

W. ATLEE BURPEE & CO., Philadelphia, Pa.

Z. DE FOREST ELY & Co.,

WHOLESALE

Seed Merchants and Growers.

IMPORTERS OF

Bulbs for Florists.

Our specialty is the JOBBING TRADE. Write for prices, which are always favorable, we can help you increase your trade.

1301 and 1303 Market Street,

PHILADELPHIA, PA.

USE FERRY'S SEEDS

BECAUSE THEY ARE
THE BEST.
D. M. FERRY & Co's
Illustrated, Descriptive and Priced
SEED ANNUAL
For 1891 will be mailed FREE to all applicants, and to last season's customers. It is better than ever.
Every person using Garden, Flower or Field Seeds, should send for it. Address
D. M. FERRY & CO.
DETROIT, MICH.
Largest Seedsmen in the world

Mention American Florist.



TRY DREYER'S
GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREYER,
Philadelphia

ONION SEED.

WHITE SPANISH (sulphur yellow), STRAW-COLORED and STRASSBURGH.

All of my own growth from selected bulb. Prices on application.

HENRY METTE, Seed Grower and Merchant,
Established 1787; Quedlinburg, GERMANY.
Mention American Florist.

Every Florist! Every Nurseryman! Every Seedsmen!

SHOULD HAVE OUR TRADE **DIRECTORY.**

Address **AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.**

ORIGINAL AND LARGEST GROWERS OF

LILIUM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 120 in length, of a crop of Liliium Harrisii in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fills in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his two uses. We hear it said occasionally that Liliium Harrisii flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as HEADQUARTERS FOR THE BERMUDA EASTER LILY; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

— HALF A MILLION BULBS. —

Be sure you get the genuine Liliium Harrisii. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant L. Longiflorum in Bermuda, planting it with Harrisii to increase their stock rapidly when Harrisii was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Misrepresentation of Goods.

I had a little deal in smilax a few days ago which I would like to have ventilated and ask other members of the craft who are similarly situated what is, or was, the right thing to do under the circumstances.

The case is this: During the latter part of January I received a letter from a grower in the southern part of the state who said that he had "about 200 extra good smilax," and wanted to know if I knew of a market in Cleveland for the same. In about a week or so I needed smilax, sent a telegram for 40 extra strings and I received in return 40 of the poorest, shimmest strings I ever saw in my life, most of them not over three or four feet long, and some not a yard in length. It would take five of some of them to make one good string. They were sent C. O. D. with charges for collection added. I was extremely busy at the time, and though I used the smilax I had to buy as much more to help out the decoration. The smilax received was also very green and young and wilted almost as soon as exposed to the air. I was away from the store when the goods arrived, otherwise should have refused them when opened.

Now what I want to get at is: What ought to be done in cases of this character? It certainly is misrepresentation of goods. We all understand that there are times in the cut flower trade when the weather is bad and roses and carnations are not up to grade, but it seems to me this does not apply to smilax. This was a small deal, but we use it as an example. In cases of this character what is the proper thing to do? E. G. CAMPBELL, Cleveland, O.

FLOWER SEED.

RICHEST STRAINS FOR FLORISTS.

1891 trade list now ready and mailed free on application.

AUGUST RÖLKER & SONS,

136 West 24th Street,
NEW YORK, STATION E.

OUR BUSINESS,

SEEDSMEN.

Our Specialty,
SELECTED STRAINS FOR FLORISTS

Trade List on Application.

SCHLEGEL & FOTTLER, Boston, Mass.

CANNAS.

Ehemanni and LaTour de Grand Ronde. Per 100
E. Hemanni, Nouton and Adolphe W. \$ 8.00
Tuberones, Pearl, 2nd size. Per 100 \$10.00
Caldium Esculentum, 1st size. Per 100 \$ 7.00
Can use in exchange, 1000 Carnations, Rooted Cuttings. \$ 9.00

E. S. NIXON & SON,
Chattanooga, Tenn.

CYCLAMEN

PERS. SPLENDENS MAGNIFICUM, the Prize
Winners of Berlin, 1889. Imported original
Seeds. Per 100 Per 1000

1st color, odoratum, pure white, scented \$1.00 \$ 5.00
Albomaculatum, dark red. \$ 1.25 10.00
Roseum magnificum, pink, dark center. \$ 1.25 10.00
Spendens, white, with red center. \$ 1.25 10.00

CHAS. SCHWAKE, IMPORTER,

318 E. 85th Street, NEW YORK.

LILY OF THE VALLEY PIPS.

(Selected strong 3-year-old Flips.)
For terms and particulars apply to

WM. HAGEMAN,

Eighth and McKean Sts., Philadelphia, Pa.
Sole agent for the U. S. for the United Hamburg and
Berlin Growers. Office Hamburg Pferdemarkt, 29.
Highest U. S. reference furnished as to quality.

In Preparing for the Spring Trade don't overlook

PLATYCODON GRANDIFLORUM.

One of the Best Hardy Flowers, and of Real Merit.

Hardy as a Phlox; about as desirable for cut flowers as Sweet Peas, but BLOOMS ALL SUMMER till cut by frost. We are growing 3,500 of this variety for florists use. Two varieties
DEEP BLUE and PINK WHITE, true, strong field grown plants, 75 cts. per doz.; \$3.00 per 100.

COREOPSIS LANCEOLATA.

A fine, hardy, bright golden yellow flower, on long wiry stems, well above the foliage. BLOOMING ALL SUMMER, desirable as cut flowers, very stylish, and sells well, try it. Extra large clumps, field grown, \$2.00 per doz.; 2-inch, pot grown, 50 cts. per doz.; \$3.00 per 100. Correspondence solicited.

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Per Doz. Per 100

LEMON VERBENA, nice plants, 2-inch. 1.00 8.00
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AKERIA and HONEYUCKLES, pot grown, fine for mail trade or growing on 5.00 3.00

AMPOLOPSIS VEITCHII, field grown. 75 cts. per doz.; \$6.00 per 100. 4-inch, pot grown, 1.00 8.00
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ANEMONE JAP. ALBA and ROSEA, young stock, ready in March, cheap. 1.00 8.00

CHRYSANTHEMUMS. Best new and old kinds. Rooted Cuttings \$7.00 per 1000. 1.00
COLEUS. Rooted Cuttings, best varieties \$5.00 per 1000. 1.00
POINSETTIA. Stock plants, fine. \$5.00 and 15 cents each.

WANTED IN EXCHANGE.

Pearl Tuberoses, Gladioli, colors mixed; Eulalia univittata, Tuberos Rooted and Rex Begonias,
Fancy Caladiums, Heliotrope, Queen of Violets. Correspondence solicited. WRITE NOW.

HARRY CHAAPEL, WILLIAMSPORT, PA.

Hydrangea Grandiflora.

We ask the attention of Dealers and the Trade to our large stock of HYDRANGEA
GRANDIFLORA, nice well grown plants at very low prices, viz:

HYDRANGEA GRANDIFLORA. 2 year, 2 to 2½ feet, strong. Price,
\$7.00 per 100; \$60.00 per 1000.

HYDRANGEA GRANDIFLORA. 2 year, second size, 18 to 24 in., good.
Price, \$6.00 per 100; \$50.00 per 1000.

HYDRANGEA GRANDIFLORA. 1 year, 8 to 12 inch, fine mailing
plants. \$5.00 per 100; \$40.00 per 1000.

Samples on application with stamps. Correspondence solicited.

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West Grove, Pennsylvania.

ROOTED COLEUS.

GOLDEN BEDDER, VERSCHAFFELTII, HERO, FIREBRAND, J. GOODE,
YEDDO, KIRKPATRICK, GLORY OF AUTUMN, CHICAGO BEDDER,
75 cents per 100; \$6.00 per 1000.

CASH WITH ORDER. STRONG ROOTED CUTTINGS.

S. B. FIELD, Roselle, N. J.

J. A. DE VEER,

18 Burling Slip, - NEW YORK,
Importer and Dealer in

BULBS, SEEDS, PLANTS

and Florists' Supplies.

Agent for Foreign Houses. Catalogues free
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Now Ready.

Anthemis coronaria fl. pl.: Abutilon in var.: Gypso-
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gracilis: Chionostemma hispidus: Fuchsia: Mery-
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Begonia Sandersonii & Brunetti alba. \$1.50 per 100.
Geranium Mme. Salsoroli: Paris Daisy: Obolonia
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Lantana: Double Sweet Alyssum: Sempervivum:
Stevia serrata nana: Pilea muscosa: Saxifraga
Sarcocolla. \$1.00 per 100.

Veronica, Yucca, Eucalyptus, \$1.00 per 100
General Collection, \$5 per 100. \$5.00 per 100
Roses, Helios, 5 in. pots, \$2.50 per 100. 4.00 per 100
" Marie Guillot, 5 in. pots, 4.00 per 100

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A SOLID ACRE OF HARDY PINKS

SOLIDLY FROZEN

Into the ground, but will thaw out BRIGHT and
EARLY. Orders booked now for Spring Shipment.

—THESE PINKS do not produce seed, but increase
from the root, and live year after year in the
open ground. Send for list to

THADDEUS HALE, South Byfield, Mass.

Mention American Florist.

NOW READY AT 1 DAY'S NOTICE.

20,000 Vinca (variegated trailing) 1st size strong
and grown, 14 inch, 2nd size from 2½ inch, \$2 per
100; good strong plants from 14 inch, \$1.50 per 100;
rooted cuttings, early fall struck, \$1 per 100. 5000
Gem Fervor, the best for potting or cutting,
strong plants, 2-inch, \$2 per 100; from 2½ inch, \$1.50 per
100; rooted cuttings, early fall struck, \$1.50 per 100;
Heliotrope, the best of all, 14 inch, \$1.50 per 100;
scorpius (Anthemis coronaria), strong, 2½ inch, \$3
per 100; flats, \$1.50 per 100; rooted cuttings, \$1 per 100;
Heliotrope, Violet, the best of all, 14 inch, \$1.50 per 100;
Lady and Jersey Blue, flats \$1.50 per 100, \$12 per 1000;
rooted cuttings \$1 per 100, \$5 per 1000. 3400 Pansies,
Mikado, Dreer's White and light colors, 50c per 100;
Gibson's selected scented Hybrid Pansies, \$1.50 per
100. 1000 Hardy Snow Pinks, strong, \$1.50 per 100;
1000 Phlox Nana compacta and Star of Queendburg,
new strains, will soon bloom, flats \$1.50 per 100;
3000 Begonia Sandersonii, 4 inch, in bloom, \$5 per
100. 2000 Grandiflora double white, 4 inch, \$10 per 100;
can be brought on for Easter. Mam. Verbenas by
the 100 and 1000, complete set of 15 beautiful named
varieties all colors, and many of them sweetly
scented, stock perfectly healthy, ready February,
March and April, \$1.50 per 100. 1000 Ad-
Spaulding, Minnie Wannaker, Bottomly, Ivory,
Princess, Camille, Mrs. Bullock, Oak Beauty, Reward,
Snow Ball, Parpurea, Grandiflora, Harn Ko, Purpura,
100 other very cream of all, complete set in 25
varieties, all shades, the range of the season, 3 inch
our choice, \$5 per 100; extra good strong plants from
flats, the top of the kind, our choice, \$3 per 100.
Coleus Verschaffeltii, Golden Verschaffeltii, Golden
Bedder, Mikado, Lottie green, 10 inch, \$1.50 per 100;
eties, rooted, 50c per 100, \$7 per 100. Mixed Fuchsia,
rooted, \$1 per 100, \$5 per 100. Ageratum White Cap,
Trailing, 10 inch, \$1.50 per 100; rooted cuttings and
plants from flat free by mail, if preferred. Satis-
faction guaranteed, see other special offers.

J. C. GIBSON, Woodbury, N. J.

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New Grapes—Elder, Rockwood, Eaton, and all others
new & old. Best and Cheapest. Small Prices. Catalogue
free. GEO. M. JOSEPHINE, Fredonia, N. Y.

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GROUND ROOTS, choice named varieties—
Double, Single and Cactus, \$5.00 per 100.

Geraniums

IVY, best double varieties, 3 inch, strong,
\$5.00 per 100.

Geraniums

DOUBLE and SINGLE, new and choice varieties,
3-inch, strong plants, \$5.00 per 100.

Geraniums

BRONZE, SILVER, SCENTED and MADAM
SALLERDI, strong, 3 in. pots, \$5.00 p r 100

ALTERNANTHERA, 4 varieties, strong,
2½-inch, \$4.00 per 100

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SURPLUS STOCK.

Primula Obconica, 2½-inch.....\$4.00
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Coleus Golden Bedder and Setting

Sun, 2 inch.....3.00

Vinca Rosea, very fine, 2½ inch.....3.00

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Echeveria Secunda Glauca, strong

plants.....3.00

Echeveria Secunda Glauca, very

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Dahlias, field grown roots.....5.00

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Address MICHEL PLANT and SEED CO.,
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DAISY SNOWFLAKE

Daisy Snowflake—This Daisy, if treated like
Violets, will give splendid returns for all labor be-
stowed upon it. I grow it by the thousands and can-
not supply the demand for cut flowers, as it keeps
fresh 3 to 4 weeks after being cut and then looks
as fresh as other white flowers just cut. The
flowers are borne on stout long stems, fine white and
beautifully quilted, and average as large as a decent
piece; a great acquisition to florists.

See what F. J. KELLER says about this Daisy:

ROCHESTER, Jan. 28th,

Daisy Snowflake is quite a useful flower both for
floral designs and put in with cut flowers, and
when tied up in small bunches they sell very rapidly
with us for funeral designs. We use a great many
in place of carnations as it is cheaper and covers
almost the same space, and keeps fresh some durable
longer. Be sure and send me every Daisy you can
cut, as I cannot get them fast enough for my cus-
tomers. They say it is the best cut flower yet
because it keeps fresh for 3 to 4 weeks. I feel I can-
not say too much in favor of this useful flower.

Yours truly, F. J. KELLER.

FRED SCHNEIDER, Wholesale Florist,
Wyoming Co., ATTICA, NEW YORK.

Lilies, Etc. for Easter

HARRISII,

LONGIFLORUM,

CANDIDUM.

—Prices on Application.—

GERANIUMS, Single & Double, of the leading var-

ieties, 2½-inch, pots, at \$4 per 100; \$35 per 1000.

HYDRANGEA OTAKSI, from 5 to 10 inch pots, \$15

to \$50 per hundred.

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H. P. ROSES, strong, outdoor grown, Genl' Jacq.,

Washington, Coquette, Miss. Mason, M. C. Wood,

La Reine, Black Prince, etc. \$1.50 doz; \$12.50 100.

CLEMATIS, large flowered, red, 35 and \$35

per 100; \$5.00 and \$1.00 per dozen.

HICANTHUS, 3½ in. pots, named sorts, \$1 per doz.;

7 per 100. In good condition for shipping.

CYCLAMEN Giganteum & Persicum, best strains,

very choice stock in bud and bloom, \$1 doz; \$8 a 100.

H. P. ROSES, summer grown, one young plants in

best sorts, \$5.00 per 100; \$45 to 100 per 1000.

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DOUBLE WHITE PRIMROSE PLANTS.

Fine, large, healthy plants, from 3, 4 and 5-in. pots,

at \$10, \$15 and \$20 per 100.

Dracena indicata, from 2, 3 and 4-inch pots, at \$4, \$8

and \$12 per 100, strong stock.

Pain Brachia Filicostosa, 4 in. pots, \$12 per 100.

Also Single Primrose, Calceolaria rugosa, Callas,

all sizes; Saxifrag, Echeverias, Alternantheras, etc.

Also the new and leading varieties of Coleus, Geraniums,

Chrysanthemums, Roses, Violets and other

stock. Write for price list.

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now being mailed to you. Should you not receive a copy within a few days,
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Without any desire to brag we assure you we have the largest and best col-
lection of Chrysanthemums in the country.

All stock is bloomed before propagated from. Our list contains over 600
varieties. We also publish a list of synonyms in our catalog.

Pamphlet of "Summer Flowering Bulbs" 20 pages mailed on application.
Price \$5 per 100. Our name does not appear in the pamphlet, therefore it is
highly valuable for those having a counter trade. Our list of dormant bulbs
is the largest and finest of any in the country.

We have so much of interest to florists and others in our catalog that we
cannot begin to mention any.

Blanche Ferry Sweet Pea, proved of great value last year as a cut flower.
We have a large stock of fresh seed at 10 cents per oz.; \$1.00 per lb.

You will bear in mind we told you last year that Chrysanthemum V. H.
Hallock was a good one. You will hear from this later on. We also recom-
mended Charity and White Cap on our last years set as being particularly
valuable for florists' use. Prices in quantity on application.

**V. H. HALLOCK & SON,
QUEENS, N. Y.****ORDER NOW FOR SPRING TRADE****Hardy Shrubs for Eastern Gardens.**

JAPAN MAPLES in 20 choice sorts.

Japan Magnolias; Stellata, Conspicua,
Parviflora, etc.

Tree & Herbaceous Pæonias, Iris Kæmp-
feri in newest magnificent coloring.

Hardy Conifers, New sports of Retinosporas.

MINIATURE JAPAN CONIFERS.

Cycas Revoluta Stems greatly reduced.

Araucarias, Tree Ferns, Bamboos.

We furnish RELIABLE goods at corre-
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Send for Catalogue to

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**JAPAN SNOWBALL.**

Blooms freely every Spring. Flowers unsurpassed for florists' use.

Over \$150 realized last Spring from flowers sold at wholesale, from
less than 300 2-year old plants.

PRICE: 12 to 18 inches, \$2.00 for 10; \$18.00 per 100.

2½ to 3 feet, \$3.00 for 10; \$25.00 per 100.

Wholesale Catalogue with colored plate of Japan Snowball free.

HYDRANGEA PAN. GRAND. Our one year old plants are superior to any offered,
and lower priced. 2 to 4 stems 18 to 24 inches, 75c.

for 10; \$6.00 per 100; \$50.00 per 1000.

2 to 2½ feet, \$1.25 per 10; \$10.00 per 100.

MEEHAN'S NURSERIES,

STATION G, GERMANTOWN, PHILADELPHIA.

BOOK YOUR EASTER ORDERS NOW.**FERNs. CALLAS.**

Only few thousand CUNEATUM and GRACILLIMUM left, 5 inch pots, size 15x18,

per dozen, \$6; 4-inch pots, size 12x12, per dozen, \$3. All other sizes sold out.

PETERIS SERRULATA, 3-inch pots, per 100 \$5.00.

CALLAS, strong plants in bud or bloom, 5 inch, per dozen, \$4.50

" " " " 6-inch, " " " 6.00

" " " " 7-inch, " " " 9.00

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A BEAUTIFUL NATIVE CRINUM.

Crinum Americanum, white flowering, bulbs 2 to 2½

inch in diameter, \$5.00 per 100; \$25.00 per 1000.

Crinum Nassau, No. 1, white, striped corolla, \$8.00

No. 2, larger flower, \$10 per 100.

No. 2, bulbs 6 to 8 in. diam., 10c. per lb.

Compos, white, seed, 5 lbs., per oz. 65c; per lb. \$6

Antigonon lept., 1 year, strong, field grown, 10c. each.

Amaryllis seph., roses, \$5.00 per 100; \$50 per 1000.

THE BROOKS SISTERS, Sorrento, Fla.

PLANTS AND BULBS.

CANNAS, fine bulbs, Per 50 Per 100

PRIMULAS, nice plants, 3.00 5.00

SMILAX, good, 1.75 3.00

PANSIES, from cold frame, 1.25 2.00

JOS. H. CUNNINGHAM, Manager,

DELAWARE, OHIO.

Fine Phalenopsis.

Under this heading a correspondent in your issue of the 5th inst. mentions some specimens of these orchids he had seen. I am not particularly conversant with orchids and don't know whether the following story is likely to beat the record or not, and shall be quite content to consider myself extinguished if some one else can cup what I describe with a bigger one.

A Phalenopsis Schilleriana with a spike 4 feet, 5 inches long, 3 feet, 11 inches wide bearing 129 flowers; the plant having five leaves, the longest of which measures 21 inches from butt to tip, is in an ordinary orchid pot with holes in the sides. It has been cared for among other orchids for the last two years or so by Mr. Joseph Spring, gardener to John Hoskins, Esq., Q. C. Rosedale, Toronto, and is now in its prime. The same plant last year had a spike with 64 flowers on, (in referring to Nicholson's Dictionary of Gardening I see this: "Peduncle frequently 3 feet in length, branched, occasionally bearing nearly 100 blossoms." E.

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Roses bought now for \$40 per 1000, or \$35 if our selection. Will net the purchaser over 100 per cent. by Spring.

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Largest and most select stock in the South-West. Over THREE ACRES UNDER GLASS. Send in your lists to be priced.

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WHITE ASTERS, PERPETUAL WHITE STOCKS, GIANT MARKET and FANCY PAN-SIES; NEW HYBRID CARNATIONS, a cross between the Perpetual and Marguerites, and greatly superior for florists' use, in separate colors, pure yellow, white, pink and red shades.

Any of the above seeds in trade packets at \$1 each.

Also the choice NEW CONTINENTAL CARNATIONS for 1891. Miss Moore, Mme. Gobet, Roi des Violettes, Bouton, d'Or, Geanne Morel, to be sent out March next.

Send for Descriptive List of all to

DENYS ZIRNGIEBEL,
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ROOTED CUTTINGS.

CARNATIONS FOR DELIVERY FEBRUARY AND MARCH.

70,000 MRS. FISHER.

Other Standard sorts in smaller quantities, all well rooted and healthy stock, at moderate figures, for which send for lists.

30,000 L. L. LAMBORN.

CARNATION NOVELTIES:

All of the season, including Lizzie McGowan, Hector, Louise Porsch, and others.

CANNAS: Rhemannii, strong roots at \$8.00 per 100; \$1.00 per dozen. Emile Leclair, at \$10.00 per 100; \$1.25 per dozen. Dwarf French, at \$12.50 per 100; \$1.50 per dozen.

SMILAX: For delivery in March and April, at \$6.00 per 1000. Nice stocky plants once reset. **** Send for Lists.**

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

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* * THE QUEEN OF WHITE CARNATIONS! * *

Will be ready for distribution February 10th, '91. Price, \$12 per 100; \$100 per 1000, for strong well rooted plants from cutting bench. Plants well established in small pots, \$3 per dozen.

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GOLDEN GATE, Grandest New Pure Yellow.

ROOTED CUTTINGS, \$1.50 per dozen; \$12.00 per 100; \$100.00 per 1000.

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ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$50.00 per 1000.

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ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$50.00 per 1000.

CONSTANCY, Glowing, Bright Scarlet.

ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$50.00 per 1000.

FRED CREIGHTON, Delicate, Soft Pink.

ROOTED CUTTINGS, 60 cents per dozen; \$4.00 per 100; \$35.00 per 1000.

For well established plants from small pots, see **ILLUSTRATED CATALOGUE—free.** ROOTED CUTTINGS, at prices per dozen, free by mail.

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CARNATION. ROOTED CUTTINGS, \$12 per 100, or \$100 per 1000.

LOUISE PORSCHE FINE YELLOW

CARNATION. Better grower than Buttercup; \$7 per 100; \$50 per 1000.

Both ready for delivery Feb. 10, 1891. 500 at 1000 rate, 50 at 100 rate.

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Is the best STRIPED CARNATION ever produced; it is a strong grower, free bloomer and very fragrant; it grows and flowers well outside and forces good inside.

\$ 2.00 per dozen.
12.00 per hundred.
100.00 per thousand.

We deliver only well Rooted Cuttings which have been once transplanted.

Ready for Delivery March 1st, 1891.

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ROOTED CUTTINGS OF CARNATIONS.

Standard and Fancy varieties, ready January 1st. Stock healthy, cuttings rooted cool. A large stock of NEW WHITE CARNATION L. L. Lamborn. A liberal discount on large lots for later delivery. Send for wholesale price list.

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CARNATIONS

HECTOR,

a brilliant, dazzling scarlet, very large flower. free and continuous bloomer, plants strong and with robust constitution. Have not seen its equal. No grower should be without it.

MRS. FISHER, the peerless white, and **FERDINAND MANGOLD,** the leading crimson.

Send for Catalogue containing general list of Carnations and Chrysanthemums.

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Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. Shelmire,
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HAVE GROWN THIS CARNATION TWO SEASONS AND NOW OFFER ROOTED CUTTINGS FOR IMMEDIATE DELIVERY
At \$2.50 per dozen. Four for \$1.00.
By mail postpaid.

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Rooted Cuttings of the following varieties at \$1.00 per 100; \$9.00 per 1000:
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PRES. DEGRAU, 75c per 100; \$5 per 1000.
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Rooted Cuttings of Carnations

In great quantity, ready now.

Also 25,000 PEARL TUBEROSE BULBS
1st size at \$7.00 per 1000.
2d size at \$5.00 per 1000.

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ROOTED CUTTINGS

of New and Old varieties at the lowest price possible to secure good stock from healthy plants. Seventy-five thousand will be ready by Feb. 1st. Send for catalogue or price list.

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Carnation Cuttings.

Boxed off and well established. Send for Price List.

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ROOTED CARNATION CUTTINGS.

All Best Varieties for the Market.

Prices lower than ever.

Also MARGUERITES and HELIOTROPE and DOUBLE SWEET ALLSUM.

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60 choice sorts. All the best varieties. Field grown roots of Large-flowered, Pompon, Cactus and Single, \$7.00 per 100; \$60.00 per 1000.

NEW BEGONIAS.

LOUISE CLOSSON—One of the richest colored of the Rex family. \$2.50 per dozen.

R. GEORGE—The strongest grower and most showy of this class; leaves large with distinct palmate center of bronzy green. \$3.00 per doz.

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REX—In fine assortment of named kinds. \$5.00 per 100.

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SOUVENIR DE MIRANDE—The finest novelty in years. \$10.00 per 100.

NEW, of the Brunt race, for 1890. \$3.00 per doz.

STANDARD VARIETIES—Best bedding sorts. \$4.00 per 100; \$35.00 per 1000.

200,000 ROSES, including all the standard forcing varieties and the new Red Mermut (Waban) at lowest prices.

A full stock of Bedding Plants, Chrysanthemums old and new, Hardy Shrubs, Clematis, field-grown Roses, Fruit and Ornamental Trees, Small Fruits, Grape Vines, etc.

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Painesville, Lake Co., Ohio.
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LILIUM WALLICHIANUM SUPERBUM.

HUGH LOW & CO., Clapton Nursery, London, England,

Have much pleasure in informing their friends and the public that they have just received from their collector in India a grand importation of the magnificent and deliciously-scented **LILIUM WALLICHIANUM SUPERBUM**, correctly described as the most beautiful of all the trumpet Lilies. Flowers are of the purest white, the tube about 10 inches long and the interior at the base of the most lovely shade of primrose-yellow.

MESSRS. WM. ELLIOTT & SONS, OF NEW YORK,
Have received a consignment of the bulbs of various sizes, and will be pleased to give quotations and execute orders for single bulbs or in quantity.

APPLY

WM. ELLIOTT & SONS,

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NEW YORK CITY.

* ROOTED * COLEUS CUTTINGS.

Golden Bedder, Golden Verschaffeltii, Crimson Verschaffeltii, Peter Henderson, Firebrazd, Glory of Autumn, Sunray, J. Goode, Crimson Bedder, Sunset, Etc.

Ten strong Cuttings each, of above ten varieties, by Mail, One Dollar.

Twenty fine sorts, including above, five of each, by Mail, One Dollar.

Write for prices on larger lots by Express. Samples of the 20 sorts mailed for 25 cts. All cuttings strong and healthy, labeled, and well rooted.

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and sixty other leading varieties. 50,000 now in cutting bench. Send for price list, and order early.
GEO. HANCOCK, Grand Haven, Michigan.

FRED CREIGHTON.

ROOTED CUTTINGS of this Superb Pink Carnation, \$1.00 per hundred; \$30.00 per thousand. From the original stock, which has not been forced or in any way made to produce an extra quantity of **CHEAP** Cuttings at the expense of the future well doing of the same.

To give all a chance to see what kind of flowers this stock produces, I will send a few florets, free of charge, to any in the trade who apply to me by letter.

GEORGE CREIGHTON, NEW HAMBURG, N. Y.

Chicago.

Mr. J. F. Kluemper has secured land near Waldheim Cemetery in Oak Park and will commence the erection of four greenhouses at once.

Mr. T. H. Spaulding of Orange, N. J. was in the city last Thursday. Frank Holly & Son have opened a floral store at 531 West 18th St., near Blue Island Ave.

The Hort. Dept. of the W. F. is still unorganized, and from present appearances nothing will be done for another month.

While the volume of trade has fallen off some from last week it is still remarkably large for the season. The demand is sufficient to use up all the good flowers sent in, and the call for roses exceeds the supply. Taken all in all the Lenten season has so far been an unusually satisfactory one to the florist.

If you have anything to sell to florists don't fail to advertise it in our special Easter number of forty pages, elegantly illustrated, and with a number of other special features. No increase in advertising rates.



MUSHROOM SPAWN
GENUINE MILITARY
10 lbs. 25 lbs. 50 lbs. 100 lbs.
\$1.20 \$2.25 \$5.00 \$8.00
JOHN GARDNER & CO.
PHILADELPHIA, PA.

REDUCTION

SINCE FEB. 1st,
33 1/2 per cent. Discount off List
on all orders for full thousands of our

NEPONSET FLOWER POTS,

OF WATERPROOF PAPER.
Address for all information,
OUR WHOLESALE AGENTS,

AUGUST ROLKER & SONS, New York.
R. & J. FARQUHAR & CO., Boston, Mass.
We furnish samples by mail, postpaid, on receipt of
For 10 ets. 11 ets. 14 ets. 22 ets.
one dozen 24 30 36 42 inch pots.

F. W. BIRD & SON, M'rs.
East Walpole, Mass.

LITTLE'S ANTIPEST

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis and Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap**. No fruit grower or florist should be without it. Send for circulars and price list.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens County, N. Y.

HAIL

Lock the door BEFORE the horse is stolen. Do it NOW!
JOHN G. ESLER, Sec'y F. H. A.,
Saddle River, N. J.

WE STILL LEAD, OTHERS TRY TO FOLLOW



To whom was awarded the **Only First-Class Certificate of Merit** for "Standard" Flower Pots, at the Sixth Annual Convention of the Society of American Florists, held at **Boston, Mass., August 22d, 1890?** Were we. Why? Because we manufactured and exhibited the **only true "Standard"** Flower Pots, and of which we claim to be the **only** manufacturers at the present time.

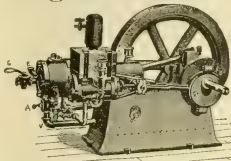
FOR REDUCED PRICE LIST, ADDRESS

THE WHILLDIN POTTERY COMPANY,
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AGENT FOR NEW ENGLAND STATES:

M. J. MCCARTHY, 27 & 29 Otis Street, Somerville, Mass.

Regan Electric Vapor Pumping Outfit.



Regan Engine Catalogue on application.

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GASOLENE FOR FUEL.

Guaranteed to PUMP 500 GALLONS of Water per hour 100 ft. high for 2 cts.

PRICE, \$22.50.

EITHER FORCE OR TANK PUMP.

No Fire. No Boiler. No Danger. No Engineer.

WIND-MILL "NOT IN IT." RUN BY SPARK FROM SMALL BATTERY.

You turn the Switch, Pump does the rest.

THOMAS KANE & COMPANY,

SHEEP MANURE, a natural invigorator for plants and lawns. This is a plant food of great merit, prepared with a view of supplying all the elements necessary for the perfecture of plant life. **QUICK, LASTING and ECONOMICAL.**

Pulverized, 100 lb. bag \$3.00: Ten \$40.
Compressed, " \$2.50: Ten \$35.

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Established
Over 50 Years.

Largest and
Most Complete
Stock in the
United States.

Mention this paper.

FRUIT TREES

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Evergreens, ROSES, Shrubs, Grapes,
Hardy Plants, Pæonies, Small Fruits.

ELLWANGER & BARRY,
Mount Hope Nurseries, ROCHESTER, N.Y.

Illustrated and
descriptive priced
Catalogue, con-
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information for
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Also wholesale list
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FREE.

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Large Assortment.

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TOBACCO STEMS FOR FLORISTS.



For Sale, packed in
bales 200 to 250 lbs.
No Charge for deliver-
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PRICE:
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3,000,000 HARDY CUT FERNS

MOSS, Sphagnum and Green Sheet.
BOUQUET GREEN & FESTOONING
of all kinds always on hand. In fact
anything that grows wild.

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MISSOURI NURSERY CO., Louisiana, Mo.
Salesmen wanted; special ads.; magnificent outfit free.

STARK NURSERIES. Stark Bros. Nursery
Co., Louisiana, Mo.
Founded 1833. Oldest in the West. Largest in the
world. Best of everything. Nearly 600 salesmen sell our
stock in almost every State and Territory; annual sales
exceeds that of any other Nursery. We sell direct through
our own salesmen, without the aid of tree dealers or middle-
men, and deliver stock freight and all charges paid.

NO TREES

Are you tired of the same old trees? Last and best like
whole root trees, or like plum, prune and apple trees
on the best plum stock grown. 1000 and over other
New & Old Fruit, do my ornamentals & c. of gratis,
excepting Nursery stock in U.S. No better Nursery.
Mention American Florist.

MY NEW SPECIAL OFFER OF
EXTRA CHOICE FLOWER SEEDS

is now published and may be had on application.
FRED. ROEMER,
SEED GROWER
Quedlinburg, Germany.

Begonias! Begonias! Begonias!

I was one of the first in England to handle Begonias, and for some years immense quantities passed through my packing sheds annually, and I was very sorry to be compelled to relinquish their cultivation; **HARDY PLANTS** then demanded all my attention, and these were first, but I have always "kept touch" with the Begonias, as I made up my mind to "pick them up" at the first opportunity. For some time past I have been assiduously working the **BEGONIA**, I have also been gathering from every known source everything considered superior, and I trust ere long to make my collection second to none. I purpose making

BEGONIAS A GREAT SPECIALTY AT TOTTENHAM.

My knowledge of this family is wide and the facilities for knowing every collection, both private and public, in England and the Continent, has enabled me to secure everything that I consider of great value, especially those possessing **NEW POINTS OF MERIT**, as my aim will be to **WONDERFULLY IMPROVE THE BEGONIA**. I am convinced that but few people can have yet any conception of the capabilities of the plant. I have an **IMMENSE STOCK OF SINGLES AND DOUBLES**, all carefully graded last season, containing every shade of color an I those which yield flowers of the largest size combined with perfection of form and improvement of type. In the hope of further developing this attractive flowering plant, I shall plant some hundreds of thousands for next season's show, and I shall be very pleased to exhibit them to any of my friends, who, I am sure, will be surprised at both quality and quantity. **SPECIAL PRICES** for Tubers for present delivery on application.

DAFFODILS AND NARCISSEUS.

I shall have an enormous quantity of these to offer for **Fall Delivery**. Special prices on application as the season advances.

THOMAS S. WARE,

HALE FARM NURSERIES.

TOTTENHAM, LONDON, ENGLAND.

THE CHEAPEST AND BEST OF ALL.

FIR-TREE OIL

INSECTIGIDE—soluble.

FOR PLANTS.—To make a solution for washing or cleansing purposes—Half a Pint of Fir-Tree Oil to ten gallons of water.

For Green and Black Fly, Thrip, American Blight, Woolly Aphis, etc.—Half a pint of the Fir-Tree Oil to two or four gallons of water, or two or three table-spoonfuls to the pint.

For Red Spider and Caterpillar—Half a pint of the Fir-Tree Oil to two gallons of water, or three table-spoonfuls to the pint.

For Mealy Bug, Brown or White Scale—Half a Pint of the Fir-Tree Oil to four or six quarts of water, four to eight table-spoonfuls to the pint.

For Mildew and Blight on Fruit or Foliage—Half a Pint of the Fir-Tree Oil to a gallon of water, or six table-spoonfuls to the pint.

Used with warm water it is quicker in its action than cold is used.

Soft or rain water is necessary, and Applied in Wood, Tin or Pot Vessels.—Galvanized Iron Vessels must not be used.

FOR ANIMALS.—For Skin Diseases and Killing Vermin mix one part of Fir-Tree Oil with three parts of warm water and wet the affected part each day. In some cases it may be used stronger. For Ring-worm apply full strength with a brush each day.

FOR BIRDS INFECTED WITH PARASITES.—Put a table-spoonful of Fir-Tree Oil in one quart of warm water and dip the bird in it, taking care that its eyes are protected, hold the bird in one hand for one minute, then dip into clean tepid water; this may be repeated. If necessary a much weaker solution may be used with a spray producer.

Sold in Bottles and Tins.

Manufacturer—E. GRIFFITHS HUGHES,

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SOLD BY ALL SEEDSMEN.

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FLORISTS' SUPPLIES ONLY,

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LARGE STOCK OF GOOD

CANE STAKES

Per 1000 \$6.00. Per 3000 \$15.00.

SPRING BULBS.

Ask for quotations and samples.

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Successors to HIRAM SIBLEY & CO., Chicago,

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THE RURAL PUBLISHERY BOOK

A Complete Hand-Book of Propagation and Pollination. By L. H. BAILEY, Editor of the American Gardener.

This valuable little manual has been compiled at great pains. The author has had unusual facilities for its preparation, having been aided by many experts in many directions. The book is absolutely devoid of theory and speculation. It has nothing to do with plant physiology, nor with any abstruse reasons of plant growth. It simply tells plainly and briefly what every one who sows a seed, makes a cutting, sets a graft, or crosses a flower wants to know. It is entirely new and original in method and matter. The cuts number almost 100 and are made especially for it, direct from nature. The book treats of all kinds of cultivated plants, fruits, vegetables, greenhouse plants, hardy herbs, ornamental trees and shrubs, forest trees.

Among the contents are the following:

PROPAGATION BY SEED.

PROPAGATION BY SEPARATION.

PROPAGATION BY LAYERS.

PROPAGATION BY POLLINATION.

PROPAGATION BY CUTTINGS.

PROPAGATION BY GRAFTING. Including Grafting,

Budding, Inarching, etc.

The **NEWSPER** List is an alphabetical list of all kinds of plants, with a short statement telling which of the operations described in the first five chapters are employed in propagating them. Over 2,000 Entries are made in the list. The following entries will give an idea of the method:

ACEE (MAPLE). *Sapindaceae*. Stocks are grown from stratified seeds, which should be sown an inch or two deep; or some species, as *A. dasycarpum*, come readily if seeds are simply sown as soon as ripe. Some cultural varieties are layered, but better plants are obtained by grafting. Varieties of native species are worked upon common or native stocks. The Japanese sorts are winter worked up in imported *A. polymorphum* stocks, either by whip or veneer-grafting. Maples can also be budded in summer, and they grow readily from cuttings of both ripe and softwood.

PHYLOCACTUS, PHYLOCACTUS, DISOCACTUS (LEAF CACTUS) *Cactaceae*. Fresh seeds grow readily. Sow in rather sandy soil, which is well drained, and apply water as for common seeds. When the seedlings appear, remove to a light position. Cuttings from mature shoots, three to six inches in length, root readily in sharp sand. Give a temperature of about 60°, and apply only sufficient water to keep from flagging. If the cuttings are very juicy, they may be laid on dry sand for several days before planting.

GOOSEBERRY. Seeds, for the raising of new varieties should be sown as soon as well cured, in loamy or sandy soil, or they may be stratified and sown together with the sand in the spring. Cuttings, 5 to 8 inches long, of the mature wood, inserted two-thirds their length, usually grow readily, especially if taken in August or September and stored during winter. Stronger plants are usually obtained by layers, and the English varieties are nearly always layered in this country. Mound-layering is usually employed, the English varieties being allowed to remain in layerage two years, but the American varieties only one (Fig. 27). Layered plants are usually set in nursery rows for a year or two before planting from the stools. Green-layering during summer is sometimes practiced for new or rare varieties.

Price, in library style, cloth, wide margins. \$1; Pocket style, paper, narrow margins, 50 cts.

THE RURAL PUBLISHING CO., Times Building, New York.

A

40

PAGE

ISSUE

MARCH 19

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SPRAY YOUR FRUIT TREES AND VINES
Worms, Fruit and Leaf Blight of Apples, Pears, Cherries, EXCELSIOR SPRAYING GRAPE and Potato Root, Plum Curculionid prevented by using
PERFECT FRUIT ALWAYS SELLS AT GOOD PRICES. Catalogue showing all injurious insects to fruits mailed free. Large stock of Fruit Trees, Vines, and Berry Plants at Bottom Prices. Address W.M. STAHILL, Quincy, Ills.

Comes in Sevens.

An Erie, Pa., reader sends us a small printed circular describing the merits of the "Seven wonders, or vining lily." The document informs us that it is "Nature's greatest curiosity" and that "It is the only plant in the world that will grow a vine seven feet long with seven branches, each branch bearing seven fragrant flowers—in all, 49 large variegated flowers—blooming for a period of 21 months, and all from a little jar of water." Our correspondent asks if we know anything about this "seven wonders," and states that a street fakir is selling the seeds in Erie about as fast as he can pass them out. He also encloses a drawing of the horned seeds.

This is an old trick of the street fakir and it is curious how many gullible people they find to bite at their bait.

Regarding these seeds Mr. Wm. Falconer has at our request prepared the following: "These 'Chinese lily seed' are a species of trapa, of which two abound in Asia, namely, *Trapa bispinosa* of India and Ceylon, and whose fruit is two horned and generally known as Singharas nuts, and *Trapa bicornis*, also two horned and known as the ling of the Chinese. Probably it is the bull's head-like ling the Erie fakir deals in. Both the Singharas nuts and the Chinese ling are very important articles of food and commerce in their native countries. The Water Chestnut, *Trapa natans*, a native of southern Europe into Asia, has four smaller horns, and is a commonly grown aquatic in this country. Annual and easily raised from seed. They take root in the ground in moderately shallow to middling deep water and send out long-jointed stems that have a large tuft of roots at every joint, and at the end a rosette of leaves with short inflated stalks which serve to float them on the water, and the stems often branch out enough to mass the surface of the water with the floating bunches of leaves. The flowers are small, white and closely set among the leaves, having a good deal the appearance of a slight shower of cherry petals over the green leafy coating on the water. The flowers are absolutely useless for bouquet work or cut flower work of any kind. And as the vines grow continually immersed in water except the floating rosetted ends, they are unfit for training out of the water as one would an ivy. At the same time these trapas are curious and interesting plants.

"But if you want to get anything new, rare or exceptionally valuable in the way of plants, seeds or flowers, please remember the street fakir is the last man in the world to be able to supply you with it. But if you want to be humbugged he generally can accommodate you."

ESTABLISHED 1866
Floral Wire Designs
 Manufactured by
N. STEFFENS,
 335 East 21st Street. - NEW YORK.
 Mention American Florist.

I TAKE ORDERS FOR
CANE STAKES
NOW.
A. C. OELSCHIG,
 * * * **SAVANNAH, GA.**



Diagram Showing
 how perfect drainage
 and ventilation
 is secured.



Parties who have used this pot say that hereafter they will use no other.

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STANDARD FLOWER POTS

— AND —

JARDINIERS IN GREAT VARIETY.



NOTE.—Although forced to play a minor part in the Prize Pantomime, we nevertheless produce the best STANDARD POT in the country, and members of the S. A. F. soon found that to get such they must send their orders to

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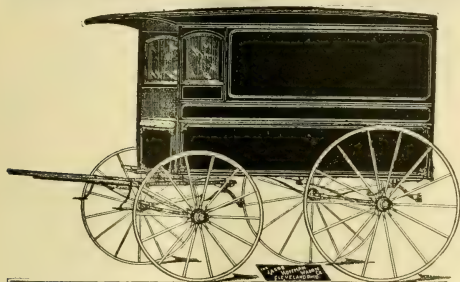


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2	inch, machine made	3 25
2 1/2	"	3 50
3	"	4 10
3 1/2	"	5 00
4	"	5 75
4 1/2	"	6 00
5	"	6 50
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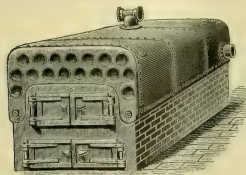
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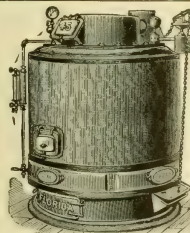
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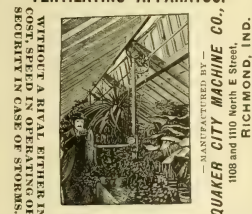
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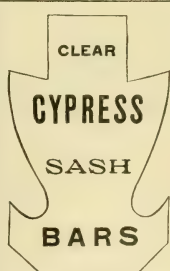
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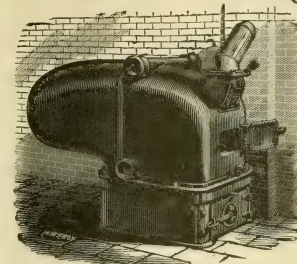
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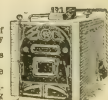
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Vol. VI.

CHICAGO AND NEW YORK, MARCH 5, 1891.

No. 144.

THE AMERICAN FLORIST

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Entered as Second Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY.

54 La Salle Street, CHICAGO.

Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CLARK, Toronto, Ont., vice-president; WM. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

Florists' Hall Association.

Insures greenhouse against damage by hail.
JOHN J. ESLER, Secretary, Saddle River, N. J.

Florists' Protective Association.

Gives information to members regarding the financial standing and business integrity of those in the trade.
H. B. BEATTY, Sec'y, Oil City, Pa.

American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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At the last meeting of the Baltimore Florists' Club it was decided by a unanimous vote to invite the Society of American Florists to hold their convention in Baltimore in 1892.

SEND COPY at once for your adv. in the double number, March 19.

Philadelphia Notes.

Trade is really not so bad considering it is Lent. We have had it worse than it is now in former years. Some of us complain of course, we often do so, just because we are never satisfied. Nor will we ever be. It is human nature not to be satisfied, excepting with ourselves. Just so soon as we all become thoroughly satisfied, goodbye progress.

Hybrid roses are plentiful now and are likely to continue so until Easter. There is a prediction afloat that there will be an over supply for Easter, or at least immediately preceding or succeeding, if not really at that great occasion.

The spring show is approaching and it is a pleasure to report that Secretary Farson declares that it will be the best spring show ever held by the Penna. Horticultural Society. It comes at a good time when the many bulbs and other spring blooming plants are generally in their prime.

An orchid was found in bloom a few days ago by one of our growers among his vegetable *verit-a-bra*, and he knowing that orchids were in demand hied himself to the city with it, and sold it, charging on his bill 50 cents. A protest was made, the high price being objected to. Our grower-salesman declared with much vigor that it was a cattleya, and, having become acquainted with the fact that cattleyas were selling at 50 cents each, he could not understand why he should not receive the market price. Its diminutive size was objected to. It was more like a lilia than a cattleya. After a little more parleying 25 cents was agreed upon as the price. Very soon after the sale was made the flower showed unmistakable signs of early dissolution. It was in this stage when seen on exhibition. The question is, what caused it to show signs of early decay. Some persons think that en route to the city was looked at so often and fondled so frequently, that its sensitive and delicate nature rebelled against that kind of treatment. It is a lesson for us all to be very careful in packing flower, even if we may only have one sometimes.

The carnation controversy now going on in the columns of the FLORIST is causing much talk among the trade here. It is generally admitted that what ever Mr. Chitty may lack in quantity cut from a given number of plants he amply makes up in the prices realized, but the point at issue seems to be the number of flowers cut, and not the prices at which they sold. And for that number of plants to occupy the space given, they must have been very small plants indeed, for according to Mr. Chitty's figures each plant occupies much less space than usual here. Paterson must be an excellent city for the florist's business, that is, in comparison

with this, for it is very seldom that carnations are retailed at more than 50 cents a dozen. The discussion is making most of the florists green with envy, and Mr. Chitty must not be surprised if half a dozen of them migrate to that much favored New Jersey city and start opposition flower stores. If they do,—he has only himself to blame. R.

The elements have been against us the past week and sales could not have been much worse. Good flowers will almost sell themselves, but of course they must in some way be brought to the notice of customers. We believe that very few really first-class flowers, go to waste anywhere, they are so handsome, that they compel admiration. Although all plants and flowers are bought for sale, we have often heard the remark: "I am sorry to see them go they have attracted so much attention, I could sell a great number if I could get them." But arrange them as they would, the flowers wasted their fragrance on the desert air, as the weather kept the promenaders indoors. We hope for better things next week.

Edwin Lonsdale is cutting some very fine Brunners, the best seen about here this season. A great many of our choicest roses find a market in Washington. We protest but to no purpose as we are told that they bring more money there than they bring in this market and that settles it.

Mr. J. Y. Smith's mushroom plant at Doylestown, was burned to the ground Saturday February 25. Loss about \$4,000, mostly covered by insurance. The greenhouses escaped.

The street fakir with the wonderful water plant has been in our midst for some time. He sets up in a vacant doorway, with a small table on which are two or three quart glass jars filled with water, inside of which the wonderful water-plant seeds are to be seen sprouting and blooming, yes blooming. At first potato sprouts were stuck into the seeds, which are weighted to the bottom of the jar; one was assured they would sprout in this way in two or three days and in a very short time would grow up out of the bottle all around a window and bear beautiful scarlet blossoms. Passing in a few days later, we were surprised to see the seed in bloom in the water; the potato sprouts had been discarded and pieces of sweet alyssum were now doing duty; this was the white lily, later on, the beautiful red lily put in its appearance, a piece of scarlet sage apparently coming out of the seed. They seemed to sell very well at 10 cents a seed, and a slip with printed directions for growing.

A match game of ten-pens was played at the club alleys last Friday night, the bright particular features of which were

Edwin Lonsdale's score of 214, the highest score ever rolled here in a match, and Mr. Daniel Farson carrying off the booby prize. S.

Boston.

There is considerable grumbling to be heard regarding the condition of the flower trade, and it comes from both growers and dealers. The weather has been, however, unfavorable to over-production, so that flowers of good quality still command fair prices.

Long stemmed carnations hold very regular and have never sold any better than they are selling this season. Violets too, sold their own and just now they are specially fine. A fair supply of good Hybrids and Jacqs is coming in. On bulbous stuff the market is somewhat demoralized, tulips being especially in the dumps and the prices realized for these in many cases are not much if any more than the first cost of the bulbs to the grower. A few orchids are to be seen in most of the florists' windows. In some of the more pretentious windows a suspended plant of dendrobium in bloom seems to be a favorite method of competitive decoration.

Shapely plants of cythus, cyclamen and Lilium Harrisii are quite abundant.

Mr. D. Zirngiebel shows a very handsome carnation, Bouton d'Or, which is one of the new French varieties. The color is a soft pleasing yellow with a few faint markings of red and white. The petals are broad and well formed and the flower is very large, being in many cases fully three inches in diameter. Jeanne Morel is another of the same set, ground color yellow but with the edges of the petals deeply mottled and striped with dark red.

The lecture before the Mass. Hort. Society on Saturday February 28, was by Dr. C. R. Rounds, Principal of the State Normal School, Plymouth, N. H. The subject was "School Instruction in Horticulture and its Advantages." On the exhibition tables were some cases of cut flowers shown by Mr. F. L. Harris, gardener to Mr. H. H. Hunnewell. Among these was a very fine spike of Phalaenopsis Stuartiana, which received honorable mention, also P. grandiflora, P. Schilleriana, Anselia Africana, the "Chatsworth variety" of *Coccygus cristata*, and several species of acacia, including the graceful A. Ricana which is not often seen here.

Mr. Chas. J. Dawson, gardener at the Bussey Institute, showed a pretty collection of forced hardy shrubs and herbaceous plants, including *Pyrus baccata*, *Ecochorda grandiflora*, *Rosa nitida*, and some very handsome blooms of *Cypripedium spectabile*.

Mr. A. Ingram, representing Sander & Co., of London, is in town paying his respects to the orchid growers.

Mr. Haswell, business partner of Mr. J. W. Porter who swindled so many members of the S. A. F. by collecting money for pictures which he never delivered, has done all in his power to undo the mischievous work of his recalcitrant partner. Photographs have been sent to all those entitled to them as fast as their addresses could be obtained, and as there are a few more copies left members who so desire can obtain the same by enclosing \$1 with their address to Mr. Geo. F. Haswell, 262 Center street, Jamaica Plain, Mass. If there are any members who paid for pictures at convention time and who have not yet received them, they can obtain them by notifying Mr. Haswell to that effect. W. J. S.

New York.

Trade good considering that it is Lent. There is just demand enough to use up the supply nicely.

The principal feature of the week was the orchid show given by J. M. Hodgson at Hodgson's Hall. The hall was turned into a beautiful conservatory, the ceilings being almost covered with southern clematis and the pillars changed into columns of flowers. In every nook and corner there were banks and mounds of orchids. In the centre of the hall was a large ship made entirely of cattleyas resting on a large mirror which bore an excellent resemblance to water; this was one of the most striking features of the show. There was also some very fine daffodils and tulips in boxes grown by Mr. Ernst Assmus of West Hoboken and Mr. John Reid of Jersey City. The music for the occasion was furnished by the Hungarian Band. Mr. Hodgson was delighted with the results and promises to make it an annual treat.

P. L. Bogart had a very large dinner order Friday for the American Yacht Club, the principal feature being a large pilot wheel 10 feet in diameter made of pansies, violets and carnations.

John Nugent had the decoration for the dinner of the directors of the Western Union Telegraph Co. The principal features consisted of large baskets of daffodils, LaFrance and orchids.

The New York Florists' Club is sparing no effort to make the show at the Lenox Lyceum a success and from present indications it cannot be otherwise.

At the meeting of the Committee of Arrangements Wednesday it was decided to offer much larger premiums for azaleas, genistas, etc., than was stated in the preliminary schedule. The prizes are such that all growers of these beautiful plants should enter and endeavor to come out ahead.

They have also offered a silver cup, value \$35, or cash value, for the best specimen orchid in bloom. This should excite rivalry among the amateurs.

The N. Y. Sun in an editorial on Tuesday, February 24, dwelt at great length on the project for the establishment of a Botanical Garden in New York modeled after the famous Kew Gardens near London. This would be a great thing for the people and a gain for horticulture.

At the Bowling Club Monday Theo. Roehrs again captured the medal with the score of 185. The rest of the boys were in it for six frames when Theo. commenced making strikes and that settled it.

"Johnny" Weir made the great score of 215 last week and is showing up in great form. He hopes to be one of the best after he has had more practice.

JOHN YOUNG.

Orchid Arrangement on a Divan.

One of the pretty features of the decorations arranged by Klunder for the Astor ball in New York is shown in the accompanying illustration. The drapings of *Lygodium scandens* from the chandelier were gracefully entwined with the mound of cattleyas on the divan beneath.

YOU CAN NOT afford to take any chances on your spring advertising. The only way to reach the WHOLE TRADE is through the AMERICAN FLORIST.

CIRCULATE your spring trade lists in our EASTER NUMBER, to be issued March 15, and you will contain forty pages. That number will be a beauty.



Carnation Lamborn.

ED. AM. FLORIST.—It is satisfactory to note from Mr. Chitty's lengthy letter in your issue of February 19 that the several criticisms which have of late appeared in your columns re carnation Lamborn have in no wise damped his ardor or lessened his rhetorical powers. It is quite delicious to read that he "greatly dislikes the task of dashing the cup of bliss from the lips of these exultant heroes just at the time they are regaling themselves with such a generous swig," and straightway continues that "these gentlemen (i. e. his critics) have permitted themselves to be caught in their own traps," but as his heart would appear to have been "bubbling over with gratitude and exhilaration" at the dismay which his letter would cause in his opponents' ranks — to which a dynamite bomb would be a mere flea bite — in the fullness of his heart was convinced that it was his bounden duty to be "unanimous" and not cower over or trample upon his fallen foes. After this preliminary antidote which he, I make no doubt, intended to ease the wounds to be inflicted by his keen shafts of ridicule and sarcasm, he proceeds to carry the war into the enemy's country.

After dealing a few knock down blows to Mr. Lombard—who will, I make no doubt, be able to return them with interest—he proceeds to devote three columns of your journal to an indictment and refutation of my letter. From the tone of Mr. Chitty's letter it would seem that his letter was final and that further discussion was both idle and out of the question. He appears like Hercules on the field of battle, who after standing the gibes of his opponents with exemplary patience for a time, at last got riled and laid them groveling in the dust. I crave of Mr. Chitty not to be unduly incensed at my presuming to offer a few words of criticism in reply to his lengthy communication.

Let me turn in the first place to his cash column and endeavor to point out a few errors, or exaggerations, whichever he prefers, to have them called: 16,000 Lamborn flowers at \$50 per 1000, less 50 per cent cost of production, realize \$800 net. My arithmetical powers are no doubt at fault, but I fail to make more than \$400 net. Will Mr. Chitty explain the deficiency, or does he get \$100 per 1000 for his blooms excluding cost of production? Again, his 6,000 Lizzie McGowans netted him \$300. Did he also get an average of \$100 per 1000 for these? Similarly his 2,000 Silver Spray averaged \$50 per 1000. For these 24,000 flowers Mr. Chitty obtained, he tells us, \$1,200, which with 50 per cent deducted leaves him \$600. So much for his blooms. If he obtained 10 cents each on an average for all his flowers, my criticism is abortive, but he distinctly told us in his first letter that they averaged just half that amount.

The remaining \$2,037.50 in your correspondent's ingenious manipulation of figures is for cuttings sold, or which he hopes to sell shortly. On this point I have only to say that it is not the good fortune of many florists to be able to

secure such ready sales for a large number of young plants, nor to get such high prices for them as Mr. Chitty has done. Were it not for the fact that Lizzie McGowan is a new variety commanding six times the price of the general run of carnations his cash account would be further reduced by \$1,538.50. It is an extremely chance circumstance which allows him to sell 30,000 cuttings at \$12 per 100. If he will re-figure up his cash account, allowing the same price for Lizzie McGowan cuttings as Lamborn, he will find that with the necessary \$600 reduction on the cut flowers that his pile of figures drops from \$3,237.50 to \$1,090.50, which is quite a trifling difference. Mr. Chitty is very well aware that few florists are so favorably placed as he is for disposing of his stock at retail prices, he is a well known and thoroughly established man of business, residing in a popular district convenient to the principal flower market of America, and whose name and fame as a cultivator has been spread all over this great country by your widely circulating paper. On the other hand, I am a new beginner, not yet having been in business for myself for one year, and consequently being by no means thoroughly settled down or established. It would be the sheerest folly for a small grower like myself to propagate a large number of carnations for sale; were we all to go in for them as heavily as Mr. Chitty what sort of a price would carnations bring?

Having glanced cursorily at Mr. C.'s majestic line of dollars I must be closing say a few words in my own defense. My blooms cut up to February 1 were 35,000 as stated. I have no large retail trade for flowers here, and while I can sell a certain number at 35 to 40 cents a dozen I don't suppose my blooms averaged over \$2.50 per 100, and I fear few florists in the neighborhood can command higher prices. Mr. C. generously knocks off 50 per cent for my cost of production, to this, however, I must take decided exception. I have figured up matters carefully and find that although Mr. C. may spend 50 per cent in growing his stock, I can with every due allowance produce mine for 25 per cent. This will increase my net receipts to \$656.25. I may here remark that I manage my establishment without any paid help during six months of the year and this permits me to produce my stock at a lower margin of cost than Mr. C. Further, my carnation house is not entirely devoted to carnations. At one end I have bouvardia on the side benches, at the opposite end I have smilax, down the center of my middle bed I flowered a quantity of chrysanthemums and I am now flowering Lilium Harrisii in the same place. Shelves round the house are devoted to freesias, etc. in boxes, while cinerarias and other plants are dotted all over the front of the benches. I have kept no tabulated account of the receipts for the special flowers other than carnations grown in this house, but added to the amount taken for carnations I am well within the mark in estimating it at \$900, less cost of production, or over double what Mr. C. credits me with. Mr. C. tells me that the actual space occupied by his Lamborns is only 801 feet. I don't grow plants in my paths as his letter would seem to imply; deducting the space occupied by paths (including one down the middle of my center bed) and spaces taken up by other plants, I have less than 1,300 feet devoted to carnations, so that his boast about his 801 feet being "199 feet less than half" my own entirely collapses. I don't grow carnation cuttings for sale, although I

have put in 4,500 for my own use and sold or given away to friends some 5,500 more. I might very fairly add the value of these to my cash account, but I will abstain from so doing believing that my cut flowers make in themselves a sum for which no novice in the trade need feel ashamed.

Having demolished the frail structure I reared, to his own supreme satisfaction, Mr. Chitty boldly challenges us to set up a stand of flowers of Mrs. Fisher against Lamborn at Chicago, New York or Philadelphia. Why except Boston? Mrs. Fisher has many admirers round that



ORCHID ARRANGEMENT ON A DIVAN.

city and there are, I doubt not, plenty of florists who will be quite ready to meet him as desired. Mr. C. can scarce expect me, situated as I am with a small place and comparatively small number of plants to cut from, to compete with one in his position, but I am willing to grow any given number of plants of Mrs. Fisher up to 500 and set them against a similar number of Lamborn to be examined by me, to be examined weekly or fortnightly by competent judges during the whole blooming season and quantity and quality of blooms to be taken into consideration as well as ground space occupied. I can not devote an entire house to Mrs. Fisher or I would be glad to set a house of it against one the same size of Lamborn grown by Mr. Chitty. I have tried Lamborn and discarded it, Lizzie McGowan I am anxious to give a trial to, if Mr. C.'s stock is not entirely sold out.

Allow me in conclusion to state that if Mr. Chitty's 3,500 Lamborn plants no more than fill 800 feet of space the plants must be decidedly small ones. My own plants (1,700) are thickly crowded, although occupying 500 feet more of space. I am glad your correspondent's last letter contained so many interesting points omitted in his earlier communication. I am sorry if by my explanations or criticisms I have lessened at all his feelings of gratitude and exhilaration. I have endeavored to give him my experience in plain ungarbled facts. As before stated, I am a new beginner and have many other

things to attend to in addition to carnations, I do not restrict myself to growing white ones, although had I done so I would have been able to cut 8,000 to 10,000 more blooms up to date. My "insignificant little dab" looks better on examination, while Mr. Chitty's majestic column of figures shrinks marvelously when critically examined. Wholesome criticism is good for all of us, we can not all be Mr. Chittys, nor roll the dollars in with the celerity he does, but I feel quite satisfied with my own receipts so far; could I but get as much for my stock as New Jersey growers appear to do, our respective money columns would bear a totally different aspect.

WILLIAM NICHOLSON.

Framingham, Mass., Feb. 23, 1891.

Carnation Contest.

A SPECIAL PRIZE PROPOSED TO BE OFFERED BY THE NEW YORK FLORISTS' CLUB.

Please read what Mr. J. N. May has to say, which is as follows:

"Your suggestions about offering a premium for the best seedling, or rather new carnation, set me to thinking, and the following is the result:

"On looking up the matter of cups for our coming show, on Friday last I came across the most beautiful cut glass cup in decanter shape, covered in beautiful artistic solid silver, inlaid with flowers, etc. It is entirely new in design and finish and as the makers, one of the leading firms in New York, offered it to us at a surprisingly low figure to introduce it, I took upon myself to order it. Now, as you are familiar with the raisers and introducers of new carnations, I will make the following proposition, which I will ask you to lay before the parties interested:

"This cup shall be offered for the best new carnation introduced in 1891 or 1892, in the form of a sweetstakes. The cup is valued at sixty dollars (\$60). The New York Florists' Club will donate \$30 of the amount. The balance to be raised by the competitors for the prize, pro rata. The winner to have his name and the object for which it is to be awarded engraved thereon. And certificates of merit will be awarded to any other deserving new varieties. The only conditions imposed are, that the balance, \$30, must be in my hands not later than March 15 next, so that the matter may appear in the final programme or schedule, and I would further propose that the exhibitors be the judges to decide which shall be deserving of the prize.

"If you can work this matter up I will be pleased to assist you in so far as I am able, but my hands are more than full at this time, so will have to leave the necessary correspondence to you. If the carnation men wish to advertise their goods this is a big chance for them, as the newspapers will take the matter up we are assured, by special arrangements, and give all the varieties exhibited a notice according to their respective merits. Yours very truly, JOHN N. MAY."

This is certainly an opportunity which should be fully taken advantage of, and it is to be hoped that all carnation growers will do everything possible to advance the project. It will be a good advertisement for carnations in general, and materially in lifting the "Divine Flower" into that position which sooner or later it is destined to occupy—up front. What makes me anxious is, can carnations be exhibited creditably in April? The spring show takes place April 7 to 11. Is it possible to have as good pot plants, for

instance, in April as it would be in October and November? Let the Thorpes, Starrs, Wights, Swaynes, Chittys, McGowans, Hills, Donners and every carnation grower answer.

It will be seen by Mr. May's letter that action must be prompt, and the sooner the views of every person who has an opinion of his own is sent to me the better. And please address

EDWIN LONSDALE,
Chestnut Hill, Philadelphia.

Carnations at Corfu.

It is easy to see, by the recent articles in the FLORIST, that growers are of one mind in regard to the most profitable carnations. Lessons may be learned from the recent discussion, and had the writers given more minute information as to soil and treatment we should have had a fair summary of modern carnation growing.

Mr. Chitty praises Lamborn, and with him and many others it doubtless does well, but here in western New York it is not a success. Within the last two months I have visited most of the large growers in this vicinity, and while I have seen Lamborn at several places yet no where did it appear to be worth growing—at least for midwinter.

On Saturday last, accompanied by Mr. Wm. Scott, I visited the establishment of Webb Bros., at Corfu, N. Y., and a description of the varieties grown here will indicate the most popular carnations grown in this section.

Corfu is situated about 25 miles east of Buffalo and has been noted for several years for the fine quality of carnations grown. The Messrs. Webb make a specialty of carnations, though some roses are produced—and good ones too. The soil is a sandy loam and can be worked in a few hours after the heaviest rain.

The houses are three-quarter span, 21 feet wide by 150 feet long and run nearly east and west. Each house has four benches, and as planted they take about 3,600 plants to the house.

At the time of our visit a house devoted to Hinz's White presented a fine appearance, probably a thousand fully opened flowers, measuring from 2½ to 2¾ inches in diameter and on long stems, could have been cut. This house, we were informed, has been *in* all winter, and it promises to be good for the next four or five months.

Hinz's White does not seem to come in crops around Buffalo, but is a regular and continuous bloomer, and I feel sure that if it did half as well near New York no one would think of throwing it out.

In the next house we saw Lamborn, Swayne and Harrison. Lamborn was full of buds and partly opened flowers, but the number of blooms fit to cut was very small. The complaint is that it does not open. Mr. Webb thinks that later in the season it will do better. Swayne is open to the same objection—it does not open. Harrison "was a sight to behold," the plants were full of bud and bloom, the flowers opening full and quickly, and seemed to me to be the most profitable carnation here.

Silver Spray is grown and appears to be the best pure white grown here. Grace Wilder did not look as well as it usually does with us. Mangold, however, looked well. For reds Portia and Garfield are grown, but the former seems to be the best here, and its small bright blossoms were abundant. Here, too, we saw a bench of Tidal Wave, while the flower can hardly be distinguished from Century

yet its superior constitution and habit causes it to be preferred; it needs however to be disbudded to obtain long stems.

Of the fourteen or fifteen thousand plants needed for planting here nearly all were rooted and the larger part were growing in flats.

A call was also made at Mr. Gidding's place, but nothing new in the carnation line was seen, nor did we see the proprietor, but we did see a few very fine violets growing in the end of one of the houses.

Of course we saw a new seedling; this time it is a dark one—a seedling from Anna Webb, but we did not see it in flower, so it still remains a dark horse. Probably Messrs. Webb will have it in shape for fall exhibitions.

J. F. COWELL.

Buffalo, Feb. 18, 1891.

The Carnation Contest.

ED. AM. FLORIST.—In your issue of February 19, under the head line "Carnation Lamborn," Mr. H. E. Chitty, of Paterson, N. J., offers to match 25, 50, 75 or 100 Lamborn against an equal number of Mrs. Fisher, at Chicago, Philadelphia or anywhere out of Boston, for \$50 to \$100. Also to match McGowan against the field of whites at either New York, Philadelphia or Chicago. Now I suppose that many carnation growers should like to take a hand in such a contest, but as Mr. Chitty has made provision for but one competitor in each class, there will be a difficulty in settling the question as to who shall enjoy that exclusive privilege. Mr. Chitty seems to have allowed his enthusiasm to outrun his business judgment, otherwise his proposition would have contemplated a wider field for a test.

Now I wish to amend Mr. Chitty's proposition by naming Chicago as the place for the contest, and to permit any one to contest by paying an entrance fee of \$5, or any other sum that may be agreed upon, the winner to receive \$100 for first and \$50 for second best. The writer guarantees at least one entrance fee of \$5, to such contests if so required. Possibly Mr. Chitty will consider the western states scarcely in the race—they are at least out of Boston, therefore eligible.

It is hoped that this proposition of Mr. Chitty's will bear fruit, as if honestly managed it will be the means of settling in a good measure the question as to the comparative merits of the (possibly) over lauded newer sorts. The facts in the business are of chief importance and let us make an effort to find them out.

F. G. GOULD.

Excelsior, Minn., Feb. 19.

CARNATION EXCELSIOR.—Mr. C. E. Brinton, Wilmington, Del., sends us a dozen blooms of a white carnation which on opening we felt sure was Lamborn, but his letter states that the blooms are from a seedling raised by him and which he has named Excelsior. The flowers are of the same size and general appearance as those of the Lamborn. They have good long stems and the calyx is perfect. Mr. Brinton says he has several other seedlings that promise well.

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SEND YOUR adv. now for our special Easter number of 40 pages, March 19.

Notes from Fairfield, Conn.

BY WM. FALCONER.

Fairfield is five miles from Bridgeport. When passing through Connecticut, recently, I stopped over a little while to see John Dallas, whom we all remember about New York as being the exhibitor of the splendid specimen of *Adiantum Farleyense* that was shown at the New York chrysanthemum show a few years ago.

His place is about fifteen minute's walk from the R. R. station and consists of a lot of greenhouses filled with all manner of plants.

The big *Farleyense* (figured in the FLORIST, page 513, June 1st, last year) is growing in a large wood-sound and looks very fine. It occupies a place in a warm greenhouse where it is raised up pretty well above the surrounding plants so that the air can pass freely between its fronds; the house is shaded and the atmosphere kept moist and the fronds of the *Farleyense* are all stacked up to keep them from laying down flat upon one another and rotting each other. Mr. Dallas grows it in a compost of fibrous loam and rotted manure, just such a soil as one would use for geraniums or other gross-feeding soft-wooded plants. Years ago he used to grow *Farleyense* and all other deep rooting ferns in the conventional peaty compost, but a few years ago he took a trip to Europe, and while journeying through Ireland he was advised of a sale of very fine greenhouse plants about to take place. He went to the sale and there beheld the finest specimens of *Farleyense* he had ever seen, and he bought a lot of them and sent them home to this country. Curious to know the secret of such successful cultivation, coming from America he soon had the goodwill and confidence of the gardener. "Fade them well," said he "give them torfy loam and plenty manure, and the divil a bit of 'pate at all at all." And he has ever since followed this advice not only with *Farleyense*, but with all other vigorous deep rooting ferns. Surface-running rhizomatous sorts, of course are still treated to rough peat and moss.

Some finely pitched nepenthes, especially *N. Mastersiana* and *N. Siebrechtii*, growing in pots and baskets in a compost of fern-root and moss were suspended from the roof of a warm, moist house.

A particularly brilliant form of *Anthurium Andreanum* glistened in a bank of green tropical foliage. Besides propagating it by cuttings he also has raised a lot of seedlings from it.

Orchids occur everywhere, suspended on blocks and in baskets from the roof and packed together on the benches, and some of them are continuously in bloom.

Bongainvillea spectabilis was in full bloom. It is a hard-wooded vine, easy to grow, easy to bloom, exceedingly showy, and in its finest estate in winter. A very large allamanda also occupies this house. Its growth is discouraged in winter, at the same time it will keep on growing. When the house is pretty well emptied of plants in summer, the shoots of the allamanda are unfurnished and let hang down all around, and then comes their sea of golden glory. In a cooler house the semi-double form of the Catalonian jasmine is very beautiful but Mr. D. doesn't favor it much for cut flowers although it keeps better than the single one. Planted out at the north end of a cool house and trained up to and along the roof are the white and red forms of *lapageria*. When he made the bed for them he sent to New Jersey for



STAIR DECORATION

the peat. They love a cool temperature, moist atmosphere, partial shade, well-drained soil and abundance of water.

A good many epacises and Cape heaths are grown. They are planted out in the open ground in summer and lifted and potted in fall.

Some of the smaller acacias are now a mist of yellow loveliness. In the near future I believe these plants will become a good deal more popular than they now are; indeed were they grown and offered in good condition, and in quantity they no doubt would be popular enough now.

Bedding plants receive a good deal of attention. Of course everybody has a new coleus, so has Mr. Dallas. Acalyphas for boldness and brightness in warm sunny spots are much prized, and among fancy geraniums Shrubland Pet, although old as the hills, is still indispensable.

Last summer he had a splendid lot of violet plants in a prepared border behind a tall hedge, but when August came, the disease struck them and swept them off clean. His neighbor on the other side of the hedge set his plants out in the open field and sunshine, and the disease didn't strike them at all. However, the different locations might have had nothing whatever to do with the matter.

Some years ago he used to run one house of string beans in winter, sowing the beans in rows cross wise in beds on the benches, but a high barn having been erected near this house and where it obstructed the sunshine in December and January, bean-growing had to be given up as a mid-winter crop. But by getting them to the blooming stage about the first of February, when they again begin to get a good deal of sunshine, fine crops are yet to be had. The Mohawk is the variety grown as it comes in quick, and carries a good weight of long, green heavy pods.

He has good success in flowering *Nymphaea Zanibarenensis* in summer, but experiences some difficulty in keeping the old roots over winter. True, he can raise flowering plants from seed every year, but in the case of these the summer is pretty well advanced before they begin

to bloom. He gets over the difficulty however very easily. He raises the seedlings in summer, pots them singly and in small pots and here lets them stay and starve for the balance of the year and over winter. In early spring when they are repotted they start into growth vigorously and are most in bloom as soon as summer opens.

Mr. Dallas has an outside rockery he thinks a good deal of for it is filled with all the nice little choice plants he can get together and which he cannot trust to the tender mercies of a thoughtless hoe or spade in an open plat or border, and the rocks are clothed with creeping euonymus and Veitch's ampelopsis. Think of his chagrin one day last summer when a lady came to him to ask for permission "to pull up some of the plants that were growing out there in the rubbish heap!" What darkness! But John pulled the wisp of ignorance out of the window of her knowledge of horticulture and gave her light.

Stair Decoration.

The illustration shows one feature of the decoration arranged by Siebrecht & Wadley for the Havemeyer ball in New York February 2. At the foot of the stairway is a bank of blooming pot plants of the Magna Charta rose, each plant carrying from five to seven open flowers. There were fully 2,000 open roses in the bank. At the top is a plant of *Chamaerops humilis* stricta twenty-one feet in height.

A Few Useful Plants.

BAMBUSA FORTUNEI VARIEGATA.—This dwarf bamboo may be considered among the variegated plants that should find an opening among the trade. It is nearly hardy, and forms a neat little tuft of its slender canes, the latter being well clothed with small linear-lanceolate leaves that are very distinctly variegated with yellow stripes. As it seldom attains a height of more than 18 inches, and is more often seen in compact clumps that

are about 9 to 12 inches high, it will readily be seen that this plant is not likely soon to outgrow its quarters. I have stated above that this bambusa is nearly hardy, though south of Philadelphia it may be quite able to stand the winter, and in a favorable season may endure the exposure in this latitude, but like *Arundo donax variegata* cannot always be depended on as a perfectly hardy plant, though I have seen the latter stand well some seasons without any protection whatever. *Bambusa Fortunei variegata* is readily propagated by division, and if potted up in small pots and kept in good condition would be a likely plant for the retail trade.

PHYLLANTHUS NIVOSUS.—This is a very pretty member of a very large genus of euphorbiaceous plants, and certainly deserves to become better known. It is a warm house plant of shrubby habit, and has ovate leaves that are much mottled with white, in fact the tips of the shoots are sometimes entirely white, thus giving the plant a very striking appearance. *Phyllanthus nivosus* is propagated by means of cuttings which root quite readily when placed in a propagating frame, providing they are not too soft. The young plants require a little judicious pinching from time to time in order to keep them in shape, and will grow freely in light loam that has been moderately enriched with some old manure. Though introduced nearly twenty years ago this *phyllanthus* does not seem to have become very common, but as the use of a greater variety of foliage plants becomes revived this charming example will doubtless find a place.

DICHRISANDRA UNDATA.—This is also a comparatively old plant and could be made a very useful one if used in the same way as small rex begonias are frequently used in window boxes and ferneries. *D. undata* is a dwarf-growing species from the South Sea Islands, and though this locality usually gives us the idea of intense heat yet an extreme temperature is not absolutely essential in this case as a satisfactory result may be obtained in a temperature of 60° to 65° with a moist atmosphere and moderate shading. *D. undata* produces broadly ovate leaves that are about 3 to 4 inches in length and of stout texture, the color of the upper side being chiefly dark green, though marked with longitudinal bands of a lighter shade, while that of the under surface is purplish. The leaves are also curiously waved or undulated, from which fact the specific name is derived. This pretty little plant may also be propagated by cuttings, which may be rooted as readily as those of some of the small growing marantas.

CAMPYLOTRYS REFUGENS.—This is another of the available plants for small work, and is here referred to under the old name because it will probably be more easily recognized by the title on under its newer designation of *Hoffmannia*. This plant will attain a height of from 1 to 2 feet, but is not specially desirable in this size, for it is much more useful in small pots. The leaves are from 2 to 4 inches in length, and dark green flushed with red on the upper side, while beneath they are reddish purple. *C. refugens* is rather an old-fashioned plant also, but as many of our readers will doubtless remember is a very attractive one when nicely grown.

LIGULARIA KÄMPFERI VAR.—Better known under its old name of *Farfugium grande* is another deserving old plant

that seems to have been relegated to the rear rank for some years past. It is nearly as tough as an aspidistra and is really on excellent house plant besides being of value for bedding in summer. It seems scarcely necessary to describe this plant further than to say that the leaves are nearly round, dark green and glossy and profusely spotted with yellow. Division is the usual method of propagation, and partial shade and plenty of water among the most essential conditions for its welfare, but even when exposed to the dust and dry atmosphere of a dwelling this ligularia is hard to discourage, and is likely to be seen in a flourishing condition.

W. H. TAPLIN.



Dollars and Cents.

I wish to make a few comments on the "dollars and cents" portion of Mr. Thorpe's article in the *FLORIST* of February 19. He says: "It has been stated that the chrysanthemum flowers interfere with the sale of roses and carnations, but I notice that nothing interferes with chrysanthemums in their season."

If Mr. Thorpe speaks for Philadelphia and its suburbs he is greatly mistaken. The fall trade about Philadelphia was good until the appearance of chrysanthemums about the first of October, but after the chrysanthemums became plentiful general stagnation prevailed in every department of our trade except that part preempted by the street fakir, who improved the shining hours by hawking chrysanthemums on the street for 15 cents and 25 cents a bunch of 50 and 100 flowers. Not only did the chrysanthemums interfere with the sale of other flowers but they interfered with themselves as far as the regular dealers were concerned. It was a general expression: "If the chrysanthemum glut would only get over, trade would improve." Nearly every store keeper expressed himself in this way until the chrysanthemums were gone, and many of them went on the dump pile. Probably one-half of all the chrysanthemums sold between October 15 and January 1, were in such an advanced state of ripeness that they would begin to fall within 24 hours after being sold, proving that the growers were overloaded with unsalable stock.

We found collections difficult during that period, the store keepers saying that while they handled more stuff and paid out more money than usual the cash receipts were less. More stuff went into the ash-barrel and the credit side of the ledger did not show up well. So seriously was business affected that some of the most prominent retailers in Philadelphia advised that some measures be taken to restrict the supply.

Our trade was affected to such an extent that our cash receipts for October and November were less than for August and September, though our cut during the months last named was much less than during the chrysanthemum season. In August and September we did not

have half enough flowers to meet the demand, but when the chrysanthemums monopolized the market we could not sell half of our product.

In my opinion, the grower Mr. Thorpe referred to as having 30,000 flowers in sight, did not get \$15,000 for his crop. And in Philadelphia it is likely that more Chrysanthemum flowers sold for 50 cents a hundred than for \$50 a hundred.

The rest of Mr. Thorpe's article makes very good reading—now, since many have forgotten the vows they made a short time ago, never to grow another chrysanthemum. THOMAS DEWITT, Bristol, Pa.

Horticulture at the World's Fair.

Following we give in full the classification adopted by the "World's Columbian Commission" for the horticultural department of the World's Fair. With the exception of group 21, this is the work of Prof. Blake, of Yale College.

Our readers will be amused to see that according to this classification horticulture (group 22) means *Kitchen Gardening*, and seedsmen and nurserymen will doubtless be highly gratified to observe that they received recognition, one as a subclass (144) of floriculture, the other in a single line in class 154.

For group 21, which heads the list and dominates all the rest, we are indebted to M. H. DeYoung, proprietor of the *San Francisco Chronicle*. There was no other member of the classification committee with sufficient knowledge of horticultural interests in the country at large and sufficient back bone to successfully oppose the indomitable will of this doughty champion of the Pacific coast, and with but feeble opposition he succeeded in forcing the wine and brandy interest to the fore from making it the most prominent feature of the proposed horticultural display. It might be supposed that he would be satisfied with this much glory. Far from it. The statement appeared in the Chicago papers some weeks ago that Director-General Davis was about to appoint an Illinois man, as chief of the Bureau of Horticulture. This was enough to excite him to direct wrath. He at once proceeded to Col. Davis' office to protest, and in the interview gave emphatic vent to this remarkable utterance, "*There is no horticulture outside of California.*"

Afterwards he telegraphed from San Francisco: "California must have the Bureau of Horticulture." Other telegrams to the same effect followed thick and fast, and it really seemed to Col. Davis that a pause was necessary, so a pause was had, and has continued ever since. In a recent issue of the Chicago *Times* appeared the following:

SAN FRANCISCO, CAL., Feb. 24.—The question of the appointment of the chief of the horticultural bureau of the World's Fair has been taken up by all the leading newspapers of the state, who are urging the selection of Gen. N. P. Chipman, of California, for the position. All the principal exchanges and the state board of trade have authorized Director-General Davis to make the appointment, contending that the recognition which would be given the Pacific coast in her leading industry would insure that state an appropriation of \$50,000, which would be largely increased by private and other subscriptions to more than double that figure.

The same influence that succeeded in placing wine and brandy at the foremost interest of horticulture now demands that a representative of this interest be placed at the head of the department.

Horticulturists of America, how do you like it? Are you willing that the horticultural department of the exposition shall be under the direct control of the

influence which has already succeeded in placing viticulture ahead of horticulture, of which it is merely a small sub-division? Are you willing to have the department which is to be called "horticultural" made mainly a display of wines and brandies? To our mind the alcoholic products of fruits should have no place in the department. And what may the horticulturists of the country outside of California expect at the hands of one who has arrogantly claimed "There is no horticulture outside of California?"

California's resources are undoubtedly great and she should have every opportunity to make a complete display at the exposition, but when she proposes to dominate the whole department she should have the fact brought to her attention that she represents but a small portion of the horticultural interests of America and that the great exposition is to show to the world the resources of the whole country and not one state alone, however large an opinion it may have of its own importance.

It is time for the horticulturists of America to make themselves heard in this matter.

State Horticultural Societies who have not already done so should by their executive officers let Col. Davis know at once what effect the appointment of a California man under these circumstances would have in discouraging exhibits from other states, and we earnestly hope that our contemporaries of the horticultural press will take the matter up in vigorous editorials. We would further suggest that they not only send marked copies, but pending publication that they mail advance proofs of intended editorials to Director-General Geo. R. Davis, Rand McNally Building, Chicago, that he may know at the earliest possible moment what the horticulturists of the rest of the country think of these outrageous assumptions on the part of the representatives of a single state.

The appointment of chief of the horticultural department will probably be made March 13, and whatever is to be done must be done at once.

Here is the wonderfully constructed classification which has been adopted by the commission.

DEPARTMENT B.

VITICULTURE, HORTICULTURE, FLORICULTURE.

Group 21.

VITICULTURE.

Class 122. The vine and its varieties—shown by living examples, by cuttings, by engravings, photographs, etc.

Class 123. Methods of planting, staking and training the vine.

Class 124. Vineyards and their management.

Class 125. Grapes for the table.

Class 126. Grapes for winemaking.

Class 127. Grapes for drying—raisin culture.

Class 128. Methods of, and appliances for cultivating, harvesting, curing, packing, and shipping grapes. Wine coöperation.

Class 129. White wines.

Class 130. Red wines, clarets, zinfandel, Burgundies.

Class 131. Sherries, madeira, port.

Class 132. Sparkling wines.

Class 133. Methods of expressing the juice of the grape; of fermenting, storing, racking, bottling, and packing.

Class 134. Brandy of all kinds; methods and apparatus for the production of brandy.



ARRANGEMENT OF ORCHIDS.

Class 135. Literature, history and statistics of viticulture.

Group 22.

HORTICULTURE.

Class 136. Garden vegetables and their cultivation. (See also groups 4 and 5.)

Class 137. Market and truck gardening.

Class 138. Esculent vegetables.

Class 139. Garden tools and other accessories of gardening.

Group 23.

FLORICULTURE.

Class 140. Hardy perennials, flowering shrubs, etc., other than roses, rhododendrons, etc.

Class 141. Roses of all varieties.

Class 142. Rhododendrons, azaleas and wild flowers.

Class 143. Orchids and orchid houses.

Class 144. Ornamental leaf plants.

Class 145. Bedding plants and annual flowering plants, ornamental bulbs, etc.

Class 146. Flower and seed trade. Methods of testing vitality of seeds.

Class 147. Cactaceae.

Class 148. Aquatic plants and their culture. Nymphaea, etc.

Class 149. Cut flowers and florist's work.

Class 150. Floral designs, etc., bouquets, preserved flowers, leaves, seaweeds. Illustrations of plants and flowers. Materials for floral designs,

bouquet materials, bouquet holders, bouquet papers, table decorations.

Class 151. Receptacles for plants, flower pots, plant boxes, tubs, fern cases, jardinières, etc. Window gardening, plant and flower stands, ornate designs in iron, wood and wire.

Group 24.

ARBORICULTURE.

Class 152. Ornamental trees and shrubs. Methods of growing, transplanting, etc.

Class 153. Fruit trees and methods of rearing, grafting, transplanting, pruning, etc., means of combating insects and other enemies.

Class 154. Nurseries and nursery trade.

Group 25.

POMOLOGY.

Class 155. Fruits of temperate and sub-tropical regions, as apples, pears, quinces, peaches, nectarines, apricots, plums, grapes, cherries and melons; cold storage and other methods of keeping, packing and shipping. (For grapes see viticulture, group 21.)

Class 156. Citrus fruits—oranges, lemons, etc.

Class 157. Bananas, pine apples and other tropical fruits except citrus fruits.

Class 158. Small fruits—berries, etc.

Group 26.

APPLIANCES AND METHODS OF HORTICULTURE, FLORICULTURE, ARBORICULTURE, ETC.

Class 159. Hot houses, conservatories. Methods of construction, management and operation.

Class 160. Heating apparatus for hot houses and conservatories.

Class 161. Hotbeds, forcing and propagating houses and appliances.

Class 162. Seats, chairs and adjuncts of garden and conservatory.

Class 163. Ornamental wire work, trellises, fences, borders, labels for plants and trees, etc.

Class 164. Garden and nursery administration and management. Horticulture, floriculture and arboriculture as arts of design and decoration. Laying out gardens. Designs for the laying out of gardens and the improvement of private residences. Designs for commercial gardens, nurseries, graperies. Designs for the parterre. Treating of water for ornamental purposes: cascades, fountains, reservoirs, lakes. Formation and after-treatment of lawns. Garden construction, building, etc. Rock work, grottoes. Rustic constructions and adornments for private gardens and public grounds. Planting, fertilizing, cultivating and appliances.

Arrangement of Orchids.

The illustration is engraved from a photograph sent us by Mr. H. H. Battles, Philadelphia. The flowers are arranged on a lath wound with sphagnum moss.

Cyperus in Decorations.

In none of the descriptions of decorations have I seen mention of cyperus being used. We use it considerably, preferring it to ferns where narcissus, freesias, lilies or callas are used. The cyperus is very durable, lasting for days. It will grow in any greenhouse and can be grown in large clumps or single plants in 2½-inch pots. It is also valuable in summer and fall for gladiolus decorations. C. B. W.



Rose Propagation in the South.

The propagation of the rose in the southern states is a matter of paramount interest to all southern florists as the many methods devised for this purpose by growers in other climates do not work successfully here. The budding and other systems of propagation so successful with European florists on account of their cool summers and attendant atmospheric moisture cannot with profit be pursued in the south; the consequence is that all other methods are abandoned in favor of the system of propagation by cuttings, which is most successful in the south, as well as the north, and is the great system of propagation in which all American cultivators exceed the growers of other countries. The propagation of the rose in the north can be carried on both in summer as well as in winter, thus giving an extended time for the performance of this operation that southern florists do not enjoy. The great length of our summers and the extreme dryness of the atmosphere renders summer propagation impracticable in the southern states, it is therefore only through the few short months of winter that we have, that any average amount of success can be obtained. The system of summer propagation so successful in the north can with some advantage be practiced in the south but only during a few of the fall months. From the middle of September to the middle of November is generally the best but much depends upon the particular locality as a later period than this might be better further south of this point. The object is to await the cool bracing atmosphere that invariably comes at that season, which is most conducive to successful propagation.

The details of propagation whether in winter or summer are in the main the same. The only difference is the bottom heat supplied in the propagation houses by the pipes and boilers through the winter months must be obtained from beds of fermenting material practiced during summer or fall. These beds are best made about the end of August or beginning of September in some out of the way place and filled in with stable or horse manure that will heat to a depth of from 24 to 30 inches; it must be firmly beaten down, and about 4 inches of sand placed on top of this which must also be made as solid as possible by beating it with a mallet or brick. A layer of nice clean straw placed on top of the manure before the sand is put on will afford good drainage for the sand that will prevent it from getting too wet from the frequent sprinkling and syringing the cuttings require. The sash should slope to the north, and posts must be placed in the ground around the bed to nail slats to for the support of the shading which must be tacked on all over the bed so as to completely obscure the direct rays of the sun. An opening in the shading may be left in the north side of the bed where you may pass in and out to attend to the sprinkling and ventilation of the cuttings. Have the shading sufficiently high so that you can walk under it

around the bed, as it is more convenient and allows of a greater circulation of air between the shading and the glass, which will result in keeping the top heat at a temperature more conducive to the welfare of the cuttings. After the bed is first made it will become very warm, but the cuttings must not be put in until the temperature has fallen to about 70°.

When the beds are duly prepared, the first act of importance is the proper selection of the cuttings; if these are not in the proper condition no amount of other attention will make marketable plants of them. The young shoots of the rose is what is to be used, but it must be hard and woody. Avoid a soft pithy growth, as much as you would an old or hardened one. When a rosebud is developed enough to cut, the shoot on which it grows is in a proper condition to make desirable cutting wood as well as all other wood of a similar development. Each leaf of the shoot with its bud at the axil, and two or three inches of a stem makes what is known to the trade as a one-eyed cutting. They are simply made by making one rather slanting cut between the joints or about a quarter of an inch above the eye. About one-third of the leaf is cut off, mainly to admit of more cuttings being put in the cutting beds or benches. If by any reason the leaf is taken off, a rose cutting in this condition will never make a satisfactory plant, or if from any cause the leaf drops off while the cutting is in process of rooting very few if any will make satisfactory plants. Some years ago especially so in the country, a popular error existed that a joint should be retained on the extreme end of the cutting; this would necessitate two joints on the cutting, one on the top and one on the bottom, which is a great waste of cutting wood, a serious objection where new kinds are being propagated and cutting wood scarce, as with the two joint system it takes as much wood to make one cutting as would make two with the one-eye system. At the end of the cutting has nothing to do with its rooting; of course it will root with the joint on the end but it will root just as well without the joint being there at all. The best plan is to cut them all of a uniform size regardless of the eyes; with some varieties good sized cuttings can be made with one eye while with other close jointed varieties two or more joints will be necessary to get a cutting of fair size. After the proper selection of cuttings they are inserted in the beds in rows in clean pure sand. No mud or vegetable matter of any kind, or soil of any description is allowed among the sand. Clean gritty sharp sand is best. With close attention as to sprinkling and keeping up a proper degree of atmospheric moisture, roses will under these circumstances root in about twenty or twenty-five days when they should be potted up in 2-inch pots using a compound of nice fibrous loam with a little sand added. Shading will be necessary for some time after potting and the same close attention as to moisture and sprinkling should be maintained as when in the cutting bed.

The indoor propagation through November, December and January can be very successfully done in the south, the details in the operation are the same whether for indoor or hot bed propagation. Use fresh sand for each batch of cuttings and keep the temperature of the sand at from 60° to 65° with the temperature of the house a few degrees less. A good deal of the trouble complained of in the south as to the leaves dropping off in a short time

after the cuttings are put in is due to the imperfect condition of the wood from which cuttings are made. When the wood is old and hardened the cuttings will invariably shed their leaves in the cutting bed. It is on this point that the southern rose grower has most to contend against—the lack of suitable cutting wood. Our summers are so long and dry that all growths are necessarily more hardened than if grown further north and consequently less liable to root and make vigorous plants. In proof of this the writer used one season a few thousand cuttings secured from a northern grower that were placed in the same bed and subjected to exactly the same treatment as a like number of cuttings cut from one of our houses here that was grown on through the summer to produce cutting wood. The result was more than 80 per cent. of the northern cuttings made satisfactory plants while scarcely 60 per cent. of the home raised cuttings made vigorous plants.

In the open air as far south as Savannah, Ga., Louisiana, Florida and the lower portion in Mississippi and northern Texas, roses can be propagated from October to January. For this system ripened or hard wood may be selected and in this case the cuttings are usually made larger, generally with three or four eyes and placed in a trench deep enough so that not more than one or two eyes will show above the ground. Make the soil firm around them so as to exclude the air. The cuttings may be set in the trenches about four inches apart and about two feet between the rows. In this way cuttings put in November will be rooted by February.

Hybrid perpetuals, noisettes, and some of the stronger growing teas only are propagated in this manner; the weak growths of many of the varieties of the teas could not be treated in this way.

Clarksville, Tenn. JAS. MORTON.

[The above is in response to queries by T. and others.—Ed.]

Springfield, Mass.

When in Springfield the other day I had only time to run out the length of Mr. C. H. Fairfield's place. It consists of eight greenhouses, span and hip-span, each 75 feet long and all in one block. They are not joined together, ridge-and-furrow fashion, but a space of three feet or thereabout occurs between them; this is the general way in places where the winters are severe and there is likely to be much snow. He grows some Wilder and Snowdon carnations, but, after this, will drop the Snowdon as its constitution seems exhausted.

Most of his houses are devoted to rose growing. He uses only four kinds, namely, Perle, Germet, Brill and Bon Silène. In the older part of the place the Perle developed many "bull-head" buds, but now they are coming in very well and perfect. He forces a good many lily of the valley, double daffodils, Roman hyacinths and paper white narcissus, and finds a market for all of his flowers in Springfield. He intends planting a lot of lily of the valley in a border against the north side of his buildings for cut flowers for Decoration Day.

His greenhouses are heated by steam and not only is he ecologicist of this method, but exceedingly well pleased with his heating apparatus. It is self-regulating with automatic arrangements, economical in fuel and easy to work. W. F.

Coming Exhibitions.

March 17-20, Philadelphia.—Spring exhibition Pennsylvania Hort. Society.

March 25-26, Montreal.—Spring exhibition Montreal Gardeners' and Florists' Club.

March 31-April 3, Boston.—Spring exhibition Mass. Hort. Society.

April 7-11, New York.—Spring exhibition New York Florists' Club.

April 14, Los Angeles, Cal.—Rose show Southern California Floral Society.

April 16-17, Syracuse, N. Y.—Spring exhibition Central New York Hort. Society.

May 6-8, San Francisco.—Annual flower show California State Floral Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

News Notes.

NEW ORLEANS.—Mr. R. N. Little, the florist, has four seedling roses which have received some favorable mention. He has named them: Souvenir of Beauvoir House, Miss Winnie Davis, Miss Mildred Lee and Fla. Field.

READING, Pa.—In the Reading *Eagle* of February 14, among the notices under the head of "Properties sold by the sheriff," appears the following: "Dwelling and greenhouses and lot 221 by 130 feet, at 2nd and Douglas, estate of Joseph B. Moore to Felix P. Kremp for \$6,750."

LA CROSSE, Wis.—Mr. E. Kirchner, for the past five years gardener to Hon. J. C. Easton of this city, has resigned his position and will build greenhouses and start in business for himself at Winona, Minn., at once. Mr. Kirchner is an A 1 florist and will undoubtedly make a success of the business at Winona.

KEOKUK, IOWA.—Peter Sutherland died recently of paralysis, in his 73d year. He was a native of Scotland, came to America in 1849 and settled near Cincinnati where he carried on the business of market gardener until 1856 when he removed to this city and established himself as a florist and market gardener. He was respected and esteemed by a large circle of friends. He leaves a widow, two sons and three daughters.

LANSING, MICH.—The spring term of the Agricultural College opened February 21 with a full attendance of old students and about thirty new ones the latter including a number of young florists who will take a course in floriculture under the supervision of Mr. Louis Knapp. Prof. Taft, of the Horticultural Dep't., with the other professors of the Agricultural Dep't. have returned after holding a series of twenty-six institutes in various parts of the state, in which much good work was accomplished.

SOUTH BEND, IND.—Mr. Robert Miller, formerly gardener for Mr. Studebaker, has associated himself with Mr. August Beyer, the florist, and the two will con-

duct a commercial business under the firm name of Beyer & Miller. They will continue the greenhouses heretofore conducted by Mr. Beyer on the outskirts of the city, and in addition have built a down town store 26x50, connected with which are two conservatories, one 20x38 and the other 40x38. They should be added to the directory list as F.

MINNEAPOLIS.—The semi-annual meeting of the Society of Minnesota Florists will be held at the West Hotel this city March 4. The programme includes essays on chrysanthemum exhibitions, fertilizers for greenhouse plants, carnations, pansies in cold frames, botany relating to plant culture, violets, roses and other subjects of trade interest. Two questions which will be discussed are: "Are the high prices during the Holidays of benefit to the trade?" and "what may be considered fair prices for spring plants?" Space will be provided for a display of flowers and small premiums are offered for best baskets of flowers and best display of cut flowers. The printed programme may be had on application to the secretary, Mr. Gust. Malmquist, Minneapolis, Minn.

OAKLAND, CAL.—James Hutchison, the well known florist died suddenly February 13 of heart failure. James Hutchison was one of the pioneers of Oakland. He was a native of Scotland, and at the time of his death was 66 years of age. He came to California in 1852, and in 1863 he came to Oakland and began the florist business. He established his nursery on Telegraph avenue at 26th street. He purchased the property at the corner of 14th and Washington streets, and there he established his store. His business grew, and his land increased in value until he became quite a wealthy man. For a number of years past H. M. Sanborn has conducted most of his business, and about a year ago Mr. Hutchison went to Europe, and since that time Mr. Sanborn has conducted the business almost exclusively, recently succeeding to the business as previously announced in these columns. Mr. Hutchison leaves a wife and an adopted daughter, but no children.

LOS ANGELES, CAL.—The following programme and list of essays for the remainder of the current year is announced by the Southern California Floral Society: March 9th, Plea for Window Gardening by J. H. Tomlinson; March 23, Roses by C. E. Brydges; April 6, business meeting; April 13, opening of the society's spring exhibition at Hazard's pavilion; April 20, regular bi-monthly business meeting; May 4, Orchids by J. C. Harvey; May 18, Forest Trees by W. S. Lyon; June 1, Methods of European Flower Culture by Gustave Brose; June 15, Progress of Floriculture in Southern California for the past five years by Eli Snyder; June 29, Hints on Fruit Growing by Thos. Chisholm; July 13, Bulbs by S. P. Wakelee; July 27, Pansies by Wm. Barclay; August 10, Grasses by James H. Denham; August 24th, Chrysanthemums, by J. Leithead; September 7th, Eucalypti, by W. G. Ward; September 21st, Palms, by Louis Legrand; October, 5th, Gardening for Profit, by S. E. Combs; October 19th, Annuals, by John Franklin; November 2d, meeting of management committee in the rooms of Hazard's pavilion, Los Angeles; November 24, opening of the society's fall exhibition at Hazard's pavilion; November 16th, regular bi-monthly business meeting; November 30th, Ferns, by C. H. Hovey; December 14th, How to

Stock and Grow the Contents of a small Conservatory, by J. C. Harvey; December 28th, Seedling Carnations, Dahlias and Roses, by J. Haetzel.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany payment. Plant ads not admitted under this head.

SITUATION WANTED—By a practical florist, in a private or commercial place. 10 years experience. No. 1 references. Address **W. C. CARLSON, Florist, Chicago.**

SITUATION WANTED—By a first class florist, 35 years experience, either as foreman, under manager or position in store. No. 1 decorator and maker up. Good references. Address **care Jordan Floral Co., St. Louis, Mo.**

SITUATION WANTED—By a first class florist, responsible position; 4 years experience. Good rose and cut flower grower; understands all kinds of general stock of greenhouse plants. References. Address **FLORIST, 717 FAGE ST., Toledo, Ohio.**

SITUATION WANTED—By a reliable assistant, single, in a greenhouse and vegetable garden, wishes situation by middle of March, either private or commercial place. Address **Wm. J. Taylor, New York or Washington, Can. mtl.** Good references. Address **G. F. Valley Forge, Chester Co., Pa.**

WANTED—Two private gardeners, (one commercial) for 1000 acres of land. Address **VACAGHAN'S SEED STORE, Chicago.**

WANTED—A young, unmarried man, with good knowledge of general greenhouse work. References required. Address **MRS. M. E. KEATON, Lyons, Iowa.**

WANTED—A young man as assistant in a flower store in Chicago. State amount of wages per week and name of last employer. Address **H. care American Florist, Chicago.**

WANTED—Competent commercial florist; good place to the right man; liberal wages paid. Address with name and references. Address **EDW. WACHENDORFF, Atlanta, Ga.**

WANTED—Young man for nursery work. Must thoroughly understand the propagation of all kinds of shrubbery, ornamental trees, etc. Give wages expected. Address **B. A. ELLIOTT Co., Pittsburg, Pa.**

WANTED—A practical gardener, thoroughly posted in vegetable growing. Also a man to work in peach nursery, and good honest workmen need apply; permanent place for both. Address **R. G. NICHOLSON, Chestertown, Md.**

WANTED—A first class gardener and florist, single or married, to act as foreman in market garden and florist establishment of 25 acres. State wages desired and references. Also four experienced garden hands. Address **F. E. BLAKE, Marion, Ohio.**

WANTED—A first class man to propagate ornamental and fruit trees in open nursery, by both budding and grafting. Also a man to work in such work, thoroughly, with brief directions, must apply. Steady job. Address **TEMPLE & BEARD, Cambridge, Mass.**

WANTED—By middle of March, German, married man to take charge of cut flower department in commercial place, to grow for Boston market. Must be good rose grower. Permanent place for good man. Address, giving experience, references, age and wages expected. Address **ROSE GROWER, care American Florist.**

WANTED—For private place, a gardener and florist, experienced in the west, in a large city, well situated for wholesale and retail business. Over 2000 square feet of land, with a large stock of plants connected with the business. One of the best openings for a business man. Not wanting to leave the place, but obliged to sell because of failing health. Only parties of means need apply. Speak quick if you want a rare opportunity. Address **JOHN A. BECKMISSE, Lansing, Mich.**

FOR SALE—Florist's store in a large city established seven years in good locality, doing good business, reasons for selling, experience, references. Address **M. G. R. American Florist.**

FOR SALE—One of the best equipped florist's establishments in the west, in a large city, well situated for wholesale and retail business. Over 2000 square feet of land, with a large stock of plants connected with the business. One of the best openings for a business man. Not wanting to leave the place, but obliged to sell because of failing health. Only parties of means need apply. Speak quick if you want a rare opportunity. Address **W. N. care American Florist, Chicago.**

FOR SALE—A well established nursery and florist business, 30 minutes from New York City, five minutes from railroad station. To anyone desirous of purchasing the above, this is the opportunity of a lifetime. The nursery contains six acres and is well stocked with all kinds of trees, shrubs, and evergreen trees, flowering shrubs, etc. There are five large greenhouses in good repair, heated with hot water, and in the most successful manner, and stocked with the best varieties of plants to supply the trade of New York, New Jersey, and New England. Will be sold for cash at a low figure. Proof of references. Business for 20 years, established over 30 years. Address **NCUSERY, care Am. Florist.**

Another Remedy for Mildew on Roses.

That mildew mixture of so many pounds of sulphur, so many of lime, so many gallons of water boiled together in an iron pot, with an awful smell, is really first rate for cure and prevention of mildew, but it is troublesome to make and after spraying a few times the foliage looks as though it had been spattered with weak white wash.

By using another alkali, caustic potash, which is readily procured, at any grocery we can make a sulphur compound in a few minutes with very little trouble, that is a sure cure of mildew and does not whitewash the foliage.

To make, procure a can of caustic potash (it is often called concentrated lye, saponific, etc.); be sure to get a kind that is already in small pieces, as that in one solid lump would be unhandy. Take, say a 3-inch pot full of flowers of sulphur, put in an earthenware vessel, moisten with water and stir until it becomes a pasty mass and every particle of sulphur is wet, then add three or four heaping teaspoonfuls of caustic potash, stir again and it will rapidly assume an orange-brown color, become very hot and turn liquid, now stir in about a pint of water and it is finished.

One tablespoonful of this to a gallon of water will be about the right strength for spraying, if too strong it injures the young foliage. When mildew has gained a foothold syringe every day until cured, but as a preventive once, twice or three times a week, according to the weather, will keep the foliage perfectly clean. Have used for over three years without having a failure.

RICHARD BAGG.

Bridgeton, N. J.

SPECIAL OFFER FOR CASH,

TO MAKE ROOM.

KENTIA, Bel. and Post, 3 ft. high, 4 to 5 character leaves.....	Each
" Bel. and Post, specimen, 3½ ft. high, 5 to 6 character leaves.....	\$ 3.00
" Bel. and Post, 2½ to 3 ft. high, 3 to 4 character leaves.....	5.00
" Bel. and Post, 2 to 2½ ft. high, 3 to 4 character leaves.....	2.00
Aspidistra variegata 5 to 6 leaves.....	1.50
Pandanus Veitchii, fine plants, 5 and 6 in. pots.....	1.50
Coco Weddelliana, 2 feet high.....	1.00

All the above grown cool and in fine condition for immediate use.

AZALEAS in best varieties, plants 15 inches in diameter, well set with buds.

E. W. WEIMAR, Mt. Vernon, N. Y.

Mention American Florist.

Order now for Spring Trade



JAPAN MAPLES, MAGNOLIAS,

Double-flowering Prunus,

Tree and Herbaceous Peonies, Iris,

etc. All hardy East.

NOVELTY, MINIATURE PINES and CONIFERS FROM JAPAN, Canada and Europe.

H. H. BERGER & CO.

P. O. Box 1501. SAN FRANCISCO, CAL.

CATALOGUES. *

I MAKE 'EM, WITH CUTS
AND "KNOW HOW."

J. Horace McFarland,

HARRISBURG, PA.

GREVILLEA ROBUSTA.

Fine, strong plants from 2½ and 3 inch pots, ready for planting, \$1.50 per dozen; \$10.00 per 100. These will make fine plants for vases etc.

CHRYSANTHEMUMS—Many new sorts, from 2½ in. pots \$2.50 per doz; \$20 per 100. List mailed free.

COLEUS—Twelve best bedding sorts. Rooted Cuttings, 75¢ per 100.

Samples of above mailed on receipt of stamps.

JOHN D. IMLAY, ZANESVILLE, O.

ROSES.

WABAN, SOUV. DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other NEW and Standard varieties of Teas; also all the best varieties both new and old of the Hybrid Remontants including the variety which

MR. JULIUS ROEHR'S

has forced so successfully for the past three years, and which has proven itself by far the best variety of this class for very early forcing yet introduced; also all the best varieties of

HYBRID TEAS, CHINAS, AND BOURBONS,

For Forcing, Bedding, etc., etc. All of which I now have an EXTRA fine stock at prices as low as any one can produce such stock for.

MY NEW TRADE LIST in now ready and will be mailed to all applicants.

JOHN N. MAY, Summit, N. J.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices Now Ready.

ROSES FOR FLORISTS.

OVER THREE HUNDRED AND FIFTY VARIETIES ON SALE. Ready for Immediate Delivery.

We offer the largest and most complete stock of Roses in this country. Straight 2½-inch plants, propagated from well matured field grown plants, and grown in ordinary soil without manure or any stimulating material whatever.

Our Roses Resist Disease, Start Quickly, Grow Rapidly and Always give Best Results.

All the Newest and Choicest Roses for Sale and Bloom. The famous New American Pedigree Roses—Henry M. Stanley, Pearl Rivers, Mrs. Jessie Fremont, Maud Little and Golden Gate. If you want to buy Roses send your lists and have them priced. Prices low, according to value of varieties and size and character of order.

The New White Chinese Wistaria, the finest of all, Wistaria Sinensis, Magnifica and Frutescens. Fine Hardy Shrubbery, all varieties, cheaper and better than imported.

New Chrysanthemums, Harry E. Weidener, Ada Spaulding, V. H. Hallock, Louis Boehmer, Mrs. Alpha Hardy, Nympha and 100 other newest and best vars. for all purposes.

THE BEAUTIFUL MANTILLA VINE, new MOON FLOWERS, etc. Wholesale Price Lists FREE to Florists, Market Gardeners and Dealers or by

Address

THE DINGEE & CONRAD CO., WEST GROVE, PA.

PLANTS



WANTED.

1000 Plumbago Capensis.

1000 Rhynchospermum Jasminoides.

1000 Cana Ehemanni.

1000 Clerodendron Balfourii.

In small plants. Send sample and price. Smaller quantities accepted.

A. BLANC & CO.,

PHILADELPHIA, PA.

We will buy all Cactuses offered at a fair price. None but well grown plants wanted. Our stock of 200,000 plants is going off faster than we expected.

E. G. HILL & CO.,
RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAPLES:

ROSES, CARNATIONS, BONGANIAS, CHRYSANTHEMUMS, ETC., and every best imported FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.

Mention American Florist.

F. A. RIECHERS & SOHNE, Act Ges.

Import and Export Nurseries,

HAMBURG, GERMANY.

Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.

22½ Wholesale Catalogue on application.

ROSES.

Roses bought now for \$40 per 1000, or \$35 if our selection. Will net the purchaser over 100 per cent. by Spring.

100,000 in 50 Leading Sorts READY NOW.

ALSO THE CREAM OF

Chrysanthemums and Bedding Plants.

Largest and most select stock in the South-

West. Over THREE ACRES UNDER GLASS.

Send in your lists to be priced.

Free Wholesale and Descriptive Catalogue of pages free to all.

Address NANZ & NEUNER,

LOUISVILLE, KY.

PLANTS for CUT FLOWER GROWING

Roses, Carnations,

Chrysanthemums, Ferns,

I grow all the best varieties for this purpose. Wholesale list to grow ready. Send for it before buying your stock for planting.

M. A. HUNT, Terre Haute, Ind.

Mention American Florist.

1. P. ROSES, strong, outdoor grown, Gen'l Jacq., Washington, Coquette, Mme. Masson, M. C. Wood, la Reine, Black Prince, etc. \$1.50 a doz.; \$12 a doz.

2. CLEMATIS, large flowered, new var. \$25 and \$35 per 100; \$1.00 and \$1.01 per dozen.

3. CLEMATIS, 3½ in. pots, named sorts, \$1 per doz.; 7 per 100. In good condition for shipping.

4. CYCLAMEN Giganteum & Persicum, best strains, very choice stock in bud and bloom, \$1 doz.; \$8 a 100.

5. P. ROSES, summer grown, the young plants in best sorts, \$5.00 per 100; \$45.00 per 1000.

F. A. BALLER, Bloomington, Ill.

THE NEW ROSE WABAN.

This very valuable rose originated at the Waban Conservatories of E. M. Wood & Co., Natick, Mass. It is a SPORT from Catherine Mermet and identical with that variety in every characteristic, excepting color, which is a rich, deep, BRIGHT PINK; it sustains the same relation to its parent as Duchess of Albany does to La France. The only objection to C. Mermet is it is frequently pale, insipid color in cloudy weather; experience has shown that the WABAN retains its deep rich color in all kinds of weather; it will, without doubt, prove to be as valuable as THE BRIDE which is also a sport from the same magnificent variety.

IT HAS ALREADY RECEIVED THE SILVER MEDAL

of the Massachusetts Horticultural Society; of the Pennsylvania Horticultural Society, and Certificate of Merit from each of the Societies in this country and Canada where it has been shown.

READY FOR DISTRIBUTION ON APRIL 15th, 1891.

ORDERS BOOKED NOW, WILL BE FILLED IN STRICT ROTATION.

Extra good plants from 2½-inch pots.

1 Plant, \$ 1.00	250 Plants, \$100.00
12 Plants, 9.00	500 " 175.00
50 " 30.00	1000 " 300.00
100 " 50.00	

From 4-inch pots.

1 Plant, \$ 1.50	50 Plants, \$ 40.00
12 Plants, 15.00	100 " 75.00
25 " 25.00	

The following Agents have been appointed to sell the Rose in the respective territories given below:

W. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th & Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

ROSES

Good, well established Plants from 2-in. pots, \$35 per 1000, in equal number from following sorts:

Aline Sisley, Coquette de Lyon, Cath. Mermet, Clement Nabaud, Duchess de Brabant, Etiole de Lyon, Euphrosyne, Perles, Gerard Des Boies, Henri Mevadier, Mme. C. Perreau, Mar. Niel, Hermosa, Mme. Jos. Schwartz, Marie VanHoutte, Marie Guillot, Fr. Krueger, Mme. Car. Custer, Mme. Lambert, Malmisson, Mme. Camille, Mme. Bravy, Sombreuil, Ophelia, Susanah Blanchet, Queen's Scarlet, Vicomtesse de Wautier, Princess Hohenzollern, Washington, Sallaterre, Mignonette.

We will allow purchaser to strike out five sorts not wanted.

Hybrid Perpetual Roses, our selection, from 2-inch pots, \$5.00 per 1000.

For everything in the Florists line

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

MY SPECIALTIES ARE THE ROSES

MME. CUSIN
AND
Mme. de Watteville,
for which the

SUNNYWOODS GREENHOUSES
have become famous.

I will have a limited number of plants of the finest stock grown of the above varieties; all strong plants.

FRANK L. MOORE, Chatham, N. J.

Mention American Florist.

ROSES.

LARGE AND FIRST CLASS STOCK of all the standard varieties of Teas and Hybrid Teas; also new varieties of merit, 2-inch, ready for shipping. Give us your order and we will send you GOOD, HEALTHY PLANTS at fair rates. New Trade List mailed upon application.

10 PER CENT. DISCOUNT

given from trade list prices on all orders booked before April 1st.
GERMOND & COSGROVE, Sparkill, Rockland Co., N. Y.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street, - - - SAN FRANCISCO, CAL.

SEEDS

ROSES

Seeds, Plants, Shrubs, Vines,
Fruit & Ornamental Trees, Etc.

CATALOGUE FREE.

Over 150 pages illustrating and describing one of the largest and best assorted stocks of Seeds, Trees and Plants in the U. S. Best value for the money in our Tested Novelties and Special Low Price Collections.

37 YEARS, 25 GREENHOUSES, 700 ACRES.

THE STORRS & HARRISON CO.,
Painesville, Ohio.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

3000 Gen'l Jacq. Rose plants, 4-in. pots, per 100, \$6.00.
Cone Cuttings rooted, Verachaffteit, Golden Bedder, Golden Verachaffteit and Sunset, per 100, 75c.
per 1000, \$6.00.

JOHN RECK, Bridgeport, Conn.

A BEAUTIFUL NATIVE CRINUM.

Crinum Americanum, white flowering, bulbs 2 to 2½ inch in diameter, \$3.00 per 100; \$25.00 per 1000.
Crinum Nassau, No. 1, white, striped carmine, 85 100.
" " No. 2, larger flower, 80 per 100.
Cosmos white, seed, 5 lbs. per oz. 40c.; per lb. \$4.
Antigonon lept. seed, 10 lbs. per oz. 60c.; per lb. \$6.
Antigonon lept., 1 year strong, field grown, 10c. each.
Amaryllis ceph. rosea, \$5.00 per 100; \$50 per 1000.

THE BROOKS SISTERS, Sorrento, Fla.

ADIANTUM CUNEATUM.

Once established, ready for small pots, per 100, \$10.
Well established in small 2½-inch pots, per 100, \$3.
JOSEPH RIFT, West Chester, Pa.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 33 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

HOW TO COOK VEGETABLES is the title of a book of 182 pages received from W. Atlee Burpee & Co., Philadelphia. It is written by Mrs. S. T. Roger, Principal of the Philadelphia Cooking School and treats the subject comprehensively. She gives 40 ways of cooking potatoes, 26 of tomatoes and 22 of corn, 28 ways of making soups and 37 recipes for salads. Directions are also given for pickling and preserving. The book is not sold but is given as a premium on seed orders by the publishers.

DO NOT FAIL to give your name and address when sending us communications. You may sign your notes for publication with an initial if you wish, but we positively must know whom the notes come from. And give your name and address with each communication. We have a pretty long memory, but it is not long enough nor broad enough to remember the address of each one of our army of occasional correspondents.

WE PROTECT our readers from advertisers whose business methods are questionable by excluding such advertisers from our columns. By this means we also protect our advertisers from the competition of irresponsible parties who promise the earth and fulfil their obligations with wind.

A FINE PHALÉNOPSIS.—F. G. F. sends us a note regarding the plant of Phalenopsis Schilleriana described by "E" on page 498 of last issue, being evidently unaware of the fact that a description had already been sent us.

IN THE DIRECTORY change Thomas Waterworth from South Braintree, Mass. to Braintree, Mass. As he is the only one under the head of South Braintree, simply cross the "south" off the name of the post office.

WILL B. who sent us some notes from Providence, R. I., please give us his name and address. We should be glad to use his notes, but do not care to do so, without having some information as to the writer.

QUITE A NUMBER of very interesting articles were unavoidably crowded out of this issue owing to unusual pressure upon our columns. All will appear soon.

WHEN WRITING to our advertisers please do not fail to state that you saw the advertisement in the AMERICAN FLORIST.

WE HAVE in hand a very spicy letter from Mr. Lombard in reply to Mr. Chitty, which will appear in next issue.

SEND your advertisement early for our double Easter number, to be issued March 19.

Catalogues Received.

C. E. Allen, Brattleboro, Vt., seeds and plants; Chas. L. Burr, Springfield, Mass., seeds and plants; John McGowan, Orange, N. J., carnations; Jos. Baneroff, Cedar Falls, Ia., plants and seeds; James J. H. Gregory, Marblehead, Mass., seeds; Hoopes Floral Co., Hoopesston, Ill., plants; D. M. Ferry & Co., Detroit, Mich., seeds; V. Lemoine & Son, Nancy France, plant novelties; Lockwood Myrick, Northboro, Mass., seeds and plants; Selover & Atwood, Geneva, N. Y., nursery stock; J. Seuberg, Oakland, Cal., plants and seeds; Michel Plant and Seed Co., St. Louis, Mo., plants and seeds; E. Y. Teas, Irvington, Ind., nursery stock; Ellwanger & Barry, Rochester, N. Y., roses; Michigan Seed Co., South Haven, Mich., seeds and plants; H. A. Aldrich, Neoga, Ill., plants and seeds; Spring City Nurseries Co., Huntsville, Ala., Lincoln coreless pear; Hans Nielson, St. Joseph, Mo., plants; J. Palmer Gordon, Ashland Va., plants; Webster Bros., Hamilton, Ont., plants; A. W. Livingston's Sons, Columbus, O., seeds; Mrs. J. E. Eckson, Gainesville, Ga., plants; Jacob Schulz, Louisville, Ky., plants; Robert Veitch & Son, New Haven Conn., seeds and plants; Schlegel & Fottler, Boston, seeds and plants; Jos. F. Dickman, St. Louis, Mo., seeds.

Hot Water Under Pressure.

I see in the issue of the AMERICAN FLORIST of January 29 that C. A. D. of Macon, Ga., advises the use of water in 2-inch pipe under pressure for greenhouse heating. As I am thinking of building I would ask C. A. D. as a favor to answer through the columns of your valuable paper the following questions:

First, how many pipes should be used compared with 3 or 4-inch, to obtain the same temperature?

Second, how would the apparatus work with the water pipe connected with the return for a feeder and expansion? We have about 30 feet head.

Third, should the connection be made near the boiler or at the extreme end?

Fourth, does that system require less fuel than steam or large pipe?

SUBSCRIBER.

Steam Heating.

In reply to M—in regard to steam heating, page 474. If the house is properly piped on the gravity plan the whole system will fill with steam in any weather without showing an ounce of pressure.

Place the boiler where most convenient, as there will be the same amount of radiation exposed; condensation will be the same, or very nearly so, whether the boiler is placed at end or midway of houses.

Would prefer 1½-inch pipe, but if I had 1-inch on hand should use it.

A gravity steam system properly equalized will return all condensation to the boiler with air cocks closed when working on a vacuum which is a most essential feature.

C. D. PORTER.

Jamestown, N. D.

A Model Rose House.

Mr. J. A. Budlong built at Bowmanville, Ill., near Chicago, last fall a rose house which is a decided novelty in this section of the country, and is worthy a description in your columns. Its dimensions are 30x300 feet, three quarter span roof, continuous ventilation, glazed with

16x24-glass. The roof structure is cypress and very light, bars are channeled for drip. The west end of the house is 3 feet 6 inches higher than the east end and the benches incline to the south 2 inches in the width of the house.

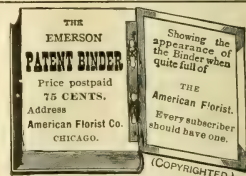
Steam heat is used and the grade of the house gives a very free and rapid circulation. All coils are the full length of the house and, notwithstanding their extreme length, work perfectly. The tubular boiler is set high and dry, the water line being about six feet above the lower radiating pipes, condensation being returned to boiler by a receiver and steam trap, which operates automatically. This plan does away entirely with deep boiler pits which are inconvenient and expensive and generally full of water at just the wrong time.

The house was completed too late to plant last season, but will be stocked soon with the best forcing varieties and the writer believes will cause a radical change in the method of building rose houses in future.

Several crops have been grown in it since its completion and the fact has been demonstrated that the temperature can be regulated from one end of the house to the other to a degree. It can be run with equal facility at 40° or at 70°. The water service is most complete, being pumped by steam to a 300-barrel tank elevated 45 feet and can be heated to any required temperature by steam coils. Altogether the house is a model one and must be seen to be appreciated. NEMO.

OAKLAND, CAL.—In the condemnation suit of the city of Oakland versus florist Edward Gill a consent judgement has been entered. The suit was to condemn Mr. Gill's property for the opening of a street. Judgment of condemnation was ordered for the city and \$9,968 damages for Mr. Gill. The land is valued at \$2,204 and improvements, including flower and shrubs, at \$7,679. Of the flowers \$5,000 is charged for camellias, marguerites, \$764; roses, \$300. Mr. Gill sued for \$15,000. The commissioners originally allowed him but \$3,000, and nothing for the improvements.

WHEN YOU WRITE an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.



J. M. McCULLOUGH'S SONS,
Wholesale Commission Dealers in
CUT FLOWERS
134 & 136 Walnut Street, CINCINNATI, O.
SPECIALTIES:
ROSES, CARNATIONS AND ORCHIDS.

ORANGE BLOSSOMS

As long as blooming—probably for next two or three weeks, at 1¢ per doz. sprays, of 3 inches long.

Address or wire to

R. MAITRE,
Putwat Building, NEW ORLEANS, LA.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.
All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

C. H. FISK,

WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,

116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.

E. J. HARMS,

Wholesale Dealer in
CUT FLOWERS,
And Florists' Supplies.

89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese,

Wholesale Cut Flowers,
66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
given to shipping orders.

LAROCHE & STAHL, Florists and Commission Merchants

— OF —
CUT FLOWERS,
1237 Chestnut Street, PHILADELPHIA.

Consignments Solicited. Special attention paid to
shipping. Mention AMERICAN FLORIST.

G. E. & S. S. PENNOCK, WHOLESALE FLORISTS,

38 S. 16th Street, Philadelphia, Pa.

JOHN M. HUDSON, WHOLESALE

Commission Dealer in Cut Flowers,
1225 Market St., ST. LOUIS, MO.

Quick sales and prompt returns guaranteed.
Mention American Florist.

ELLISON & KUEHN, WHOLESALE FLORISTS,

1122 PINE STREET,
ST. LOUIS, MO.
Mention American Florist.

CONSIGNMENTS OF SMILAX, CALLAS
AND ADIANTUMS WANTED.
THE WISCONSIN FLOWER EXCHANGE,
138 Mason Street MILWAUKEE, WIS.

Wholesale Markets.

Cut Flowers.

BOSTON, March 2.	
Roses, Hybrids.....	15 00 @ 20 00
" Niphetos.....	3 00 @ 4 00
" Gontiers.....	4 00 @ 5 00
" Perles, Sunsets, Woottons.....	4 00 @ 5 00
" Mermets, Brides.....	6 00 @ 8 00
" La France.....	10 00 @ 12 00
" Jacq's.....	15 00 @ 25 00
Carnations, long.....	1 25 @ 1 50
Carnations, short.....	75 @ 1 00
Valley, hyacinths.....	4 00
Tulips, Daffodils.....	2 00 @ 3 00
Freesia.....	2 00
Adiantum.....	2 00 @ 3 00
Violets.....	30 @ 75
Asparagus plumosus.....	50 00
Callas.....	1 50
Smilax.....	15 00 @ 17 00
Adiantum.....	5 00 @ 8 00
Harriell.....	8 00 @ 10 00
French, per bunch.....	30 @
Priestess, per bunch.....	15

PHILADELPHIA, March 2.	
Roses, Beauties.....	30 00 @ 50 00
" Brunners.....	25 00
" La France, Albany.....	8 00 @ 10 00
" Laines, Lutes.....	5 00
" Mermets, Brides.....	8 00 @ 10 00
" Woottons, Beauties.....	5 00
" Perles.....	4 00 @ 5 00
" Hostes.....	6 00 @ 8 00
" Gontiers.....	4 00 @ 5 00
Valley.....	4 00 @ 5 00
Daffodils, Tulips.....	2 00 @ 3 00
Carnations, long.....	1 00 @ 1 50
Carnations, short.....	75 @ 1 00
Violets, double.....	25
Smilax.....	20 00
Adiantum.....	1 00

NEW YORK, March 2.	
Roses, Gontiers.....	\$2.00 @ \$4.00
" Bon Silence.....	2 00 @ 4 00
" Perles, Niphetos, Souvs.....	2 00 @ 4 00
" Mermets, Brides.....	3 00 @ 5 00
" Watteville, Cousins.....	3 00 @ 5 00
" La France, Albany.....	5 00 @ 10 00
" In Beauty.....	10 00 @ 20 00
Hybrids.....	15 00 @ 40 00
Valley, hyacinths.....	2 00 @ 3 00
Tulips, Daffodils.....	2 00 @ 4 00
Carnations.....	1 00 @ 1 50
Violets.....	50 @ 75
Smilax.....	15 00 @ 25 00
Harriell.....	8 00 @ 12 00
Freesia.....	1 00 @ 1 50

CHICAGO, March 2.	
Roses, Bon Silence.....	2 00 @ 3 00
" Perles, Niphetos.....	4 00 @ 5 00
" Mermets, Brides.....	20 00 @ 30 00
" Beauties.....	20 00 @ 30 00
" Gontiers.....	4 00 @ 5 00
" Mermets, Woottons.....	4 00 @ 5 00
" La France.....	6 00 @ 8 00
Carnations.....	1 00 @ 1 50
Carnations, long.....	1 00 @ 2 00
Carnations, long, fancy.....	2 00 @ 3 00
Valley.....	1 00 @ 5 00
Tulips.....	4 00 @ 6 00
Valley, hyacinths, narcissus.....	4 00 @ 6 00
Smilax.....	12 00 @ 15 00
Adiantum.....	1 00 @ 1 25
Violets.....	1 00 @ 1 25
Callas.....	10 00 @ 15 00
Harriell.....	10 00 @ 15 00

WM. J. STEWART,

Cut Flowers & Florists' Supplies
— WHOLESALE —

67 Bromfield Street, BOSTON, MASS.

GEO. MULLEN, WHOLESALE FLORIST,

Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express
promptly filled.

WELCH BROS. WHOLESALE FLORISTS

165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and
other flowers carefully packed, to all points in
Western and Middle States. Return Telegram sent
immediately when it is impossible to fill order.

CUT FLOWERS.

The Western Trade Solicited.

Write or Telegraph.

SMITH FLORAL CO.,
77 7th Street S. - Minneapolis, Minn.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,
NEW YORK.

LILY OF THE VALLEY,
And the Choicest ROSES for the
fall and winter season.

W. S. ALLEN, Wholesale Dealer in Cut Flowers

36 EAST 23rd STREET, NEW YORK.
[ESTABLISHED 1871.]
Price List sent upon application.

W. F. SHERIDAN, Wholesale and Commission Dealer in

CUT FLOWERS,
No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

FRANK D. HUNTER, WHOLESALE DEALER IN

CUT FLOWERS
51 West 30th St., NEW YORK.

W. A. JURGENS, WHOLESALE FLORIST

27 Union Square, NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST

53 WEST 30TH STREET,
NEW YORK.

A. S. Burns. J. I. Raynor.

BURNS & RAYNOR, WHOLESALE FLORISTS,

11 West 28th St.,
NEW YORK.

C. STRAUSS & CO. GROWERS OF CUT FLOWERS.

— WHOLESALE ONLY. —
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

N. F. MCCARTHY & CO. Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carna-
tions always on hand. Return telegrams sent
immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.

Our Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN PORTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1901.

More About the Prize Adv. Contest.

PHILADELPHIA, Feb. 17, 1891.
EDITOR AM. FLORIST.—In answer to your inquiry of the 9th inst. asking which one of the several very original advertisements submitted by a member of your staff was accepted by us and awarded the "honorarium" of \$5 as announced in our last article, we take pleasure in giving you below a printed copy of a portion of this advertisement:

ALL LIVE SEEDS

Will grow if properly cared for, but some are **better than others**, just as strong, healthy children are more likely to develop into active and useful men and women than weak, puny ones.

BURPEE'S SEEDS

Are not only alive, but full of vitality—**pure and true to name**. They are **tested**, before being sent out, and if any are found to lack vitality they are destroyed.

In our opinion the heading "All Live Seeds" and the wording which follows are both most excellent. While too late for us to make much use of this material this season we purpose using it quite extensively next year.

Another advertisement received from your office that is decidedly original in its conception is the following:

"Every good seed contains a little

LIVE BABY PLANT,

Tightly but safely wrapped up in a shell, the infants were filled with albumen or starch upon which the baby feeds until it can draw sustenance from Mother Earth. Seeds containing live baby plants of the breeds most useful, helpful and pleasing to mankind, can be had from

W. ATLEE BURPEE & CO., PHILADELPHIA.

Their Farm Annual for 1891, which tells all about their seeds, will be mailed free on application.

Properly set up in suitable type, well displayed, this would undoubtedly be a very striking advertisement, and perhaps we are too conservative in objecting to it as rather bordering on the sensational. Permit us to say that one of the most agreeable features connected with the prize contest has been the interest taken in it by editors and also by professional writers of advertisements:—you will notice among the list of awards, given in our last letter, the name of Mr. S. M. Pettigill, the veteran advertising agent of New York, who is now writing such as interesting series of articles on his life long experience with extensive advertisers.

Another interesting feature of the contest has been the good will shown by a number of correspondents who while not submitting designs in competition for the prizes, freely wrote their views relative to advertising and gave their honest criticisms upon our advertisements, and also of our catalogues. Among these were many good ideas that will make material to write quite a series of articles presenting new methods of advertising, of some of which we may give the AMERICAN FLORIST an outline later. Since the advertising contest closed with 689 advertisements we have received quite a number of others which arrived too late for competition.

Among no many advertisements of seed

there were, of course, all sorts, many in verse and many of a comic nature, which while often bright and effective were hardly consistent with the dignity of a house seeking the trade of substantial farmers and gardeners.

Several suggested representing our name by a rebus of a chestnut burr and a pod of peas—(BURR-PEAS). The "taking" quality of a catch phrase in the minds of the contestants was prominently shown by such phrases as "WE supply the seeds, YOU gather the crops," "you plant them, THEY grow,"—"Burpee's Seeds will grow,—you do the rest,"—"Burpee's Seeds are the best and go farthest,"—"We pay the postage."

SOME CURIOUS CONCEITS.

Among the striking and sensational headlines suggested by different competitors are the following:

"BURIED HOPES—"

Plant Burpee's Seeds and your expectations will be rewarded by realization."

"WE ARE NOT GOING TO SEED—The earth, though we have facilities."

"YOU WANT THE EARTH, Only a little of it though to prove our assertion that we sell good Seeds."

"AN ORANGE and

AN ONION

will not taste alike grown from our Seeds."

"YOU CANNOT KEEP THEM DOWN."

"ALWAYS COME UP."

"A NEW JACK AND HIS BEAN'S TALK."

"LETTUCE HAVE PEASE."

"POVERTY MAKES A MAN SEEDY."

"BURPEE'S SEEDS ALWAYS COME UP—"

Those who use them once always come back for more."

Another contestant heads his advertisement with a picture of a moon and the query "WHY IS THE MOON SO BARREN?" is answered "Because its inhabitants cannot get Burpee's Seeds."

Another suggests that "Our seeds are none of the tired kinds that have been lounging on the counters of the corner groceries for the past decade, but are fresh as a country maiden and as pure as spring water—true to name and sure to grow. To know what kinds you want, how to plant and how to cultivate seed for Burpee's Farm Annual for 1891."

The vitality of the seeds seems to be in the minds of most competitors the chief point to bring out in an advertisement. One contestant in Shelbyville, Ill., heads his advertisement in bold type with the announcement that

"SOWN IN THE DARKNESS

OR SOWN IN THE LIGHT

They always grow."

W. ATLEE BURPEE.

J. LELAND FOGG has removed to Cedar Rapids, Iowa, from Chicago.

ROCHESTER, N. Y.—Mrs. Chas. Vick is now visiting Cuba with friends and will go to California via Mexico, and return in the spring. Morehouse & Cobb have dissolved. Mr. Morehouse continues the business.

MY NEW SPECIAL OFFER OF

EXTRA CHOICE FLOWER SEEDS

is now published and may be had on application.

FRED. ROEMER,

SEED GROWER.

Queidlinburg, Germany.

Mention American Florist.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,

NEW ROCHELLE, N. Y.

New and
Rare Plants



ORCHIDS,
PALMS,
FERNs.

Hardy
Plants.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

NEW AND RARE PLANTS, ORCHIDS, ETC.

A large collection of Bothouse and Green-house plants, carefully grown, at low rates.

ORCHIDS—A very extensive stock. East Indian, Mexican, Central and South American, etc. HARDY PERENNIALS, ROSES, CLEMATIS, PEONIAS, PHLOXES, ETC. NEW AND STANDARD FRUIT, RARE AND BEAUTIFUL TREES, SHRUBS, EVERGREENS, ETC.

For Catalogues on application.
JOHN SAUL, Washington, D. C.

PALMS AND DRACAENAS.

Largest stock in the West. Over fifty varieties of PALMS at 5 cts. to \$10 00 each.

CYCAS REVOLUTA, 50 cts. to \$15 00 each.

DRACENA INDIVISA, AUSTRALIS and TERMINALIS, 5 cts. to 15 cts. each.

CACTUS, ALOES, AGAYES and YUCCAS.

For Seed for plants.
W. J. KESSER, Plattsburgh, Neb.

ORCHIDS.

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 For 1891 will be mailed FREE
 to all applicants, and to last season's
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WHITE SPANISH (sulphur yellow), **STRAW-**
COLORED and **STRASSBURGH.**
 All of my own growth from selected bulb. Prices
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1890.

No one in the Trade can afford to be
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VARIETIES of
 BOTH FRUIT AND ORNAMENTAL,
SHRUBS, VINES, ROSES, &c.
 Send stamp for full Descriptive Catalogues, illus-
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—A—
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With a supply of Burpee's Seeds has this much in his favor—he starts right. That's half the trouble over. A farmer can plow, harrow, and take all manner of pains in his work with some enthusiasm if he knows that he is tickling the earth to make really good seed laugh into harvest.

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Are all tested. It is known that they hold a hearty germ before they are sent out. Like the good man who is judged by his deeds, each package of Burpee's Seeds is its own recommendation. If you haven't tried them you are the man to whom the following offer is made. This is for an introduction; may the acquaintanceship ripen.

For 25c we will mail you one full size packet each of the new **Vandergraw Cabbage** in cultivation; **Burpee's Hard-Head Lettuce**, hardest heads of finest flavor; the **Delaware Watermelon**, the sweetest of all large Watermelons; **Burpee's Red Bird Pepper**, distinct novelty; mild **Peppers** borne erect; and the **Matchless Tomato**, the largest solid, smooth Tomato. — Purchased separately, these 6 packets of seed would cost 60 cts. but we will send the entire collection for 25 cts., or 5 complete collections for \$1. If you do not want all of these 6 varieties you can select any 3 for 15 cts. (4 two cent stamps.) Write to-day and ask for

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 WHOLESALE
Seed Merchants and Growers.
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Our stock is the largest in America, and contains over 200 varieties of named Doubles.

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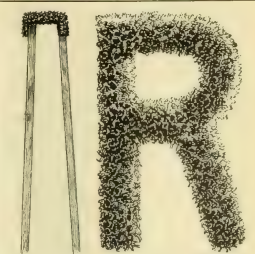
12 named doubles, very best.....	\$12.00
12 " " choice.....	9.00
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Single, mixed.....	per 100 5.00
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Seed, double, hybridized from named flowers.....	per 50 .50
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LILY OF THE VALLEY PIPS.

(Selected strong 3-year-old Pips.)
 For terms and particulars apply to

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Water's Novelties for 1891.

ELDORADO, MARY WATERER,
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Also a large stock of MISS MINNIE
WANAMAKER, the best white
in cultivation.

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GOLDEN BEAUTY TO THE FRONT.

It was never exhibited, but has stood the more
practical test, for no early yellow Chrysanthemum
gave better satisfaction to seller and buyer than the
above. Such was our experience, and also of all
who handled it. What they say.

"We handled no early yellow that sold better or
gave better satisfaction to the buyer."—James Car-
ledge, of Pennock, Bros., 1514 Chestnut street, Phil-
adelphia, Pa.

"You can get nothing better than that."—Wm.
Voght, Jr., 5th and Cooper Sts., Camden, N. J.

It was described in these columns last year, and
we leave it to tell its own story. Suffice it to say
that our claims for it have been more than sustained,
and that it combines all the essentials of a first class
market variety for potting and cutting. Ready in
quantity March, April and May. 12 for \$1.00 for
\$8. You can not afford to get left on this offer.
(Orders booked now are filled in rotation as far as
plants are ready, by express or free by mail.)

THE NEW DOUBLE WHITE DAISY SNOWFLAKE.
One of the best things out for winter flowers.
Will grow and bloom all winter in a cold frame, and
it will covered cold nights will need no better quar-
ters. Gives splendid returns. It does not seed, and
can only be increased by division. Flowers pure
white, very double, and beautifully quilled. As
large as a 50c. piece. Ready now. 12 for \$1.00 for
\$8. Sample plant and bloom free by mail on receipt
of 10 cents.

See other special offers in another column.
J. C. GIBSON, Woodbury, N. J.

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HOLLIS' SEEDLINGS OF 1890.

Nine distinct and choice varieties. Prospective
prize winners of 1891 need them. Best
quality and lowest price.

35 to 50 cents each; \$3.00 for the set.
Send for descriptive list.

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FRESH GREENHOUSE SEEDS,

FROM PRIZE FLOWERS.

Trade Pkt.

PRIMULA, Fimbriata Rosea, Fimbri- ata Alba.....	\$.25
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PETUNIA, Mammoth Double striped and blotched.....	.50
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CLOXIA, finest ext. mixed hybrida CHRYSANTHEMUM.	.50

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COBEA Scandens.....	.25

Send for my Wholesale List of Flower Seeds FREE.
This stock is for the most critical trade. I solicit
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ROCKFORD, ILL.

FLOWER SEEDS!

Just received 500 varieties FRESH
FLOWER SEEDS, positively 1890
CROP. Get our Book for Florists.

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OUR TRADE DIRECTORY.

AMERICAN FLORIST CO., 54 La Salle St., CHICAGO



HARDY PLANTS.

We are headquarters for every-
thing new and desirable in hardy
plants and our stock the most extensive in America, and our prices the lowest.
There is a rapidly growing demand for this class of plants, and the florist who
fails to stock up with them will lose considerable and profitable business.

ROSES. We grow immense stocks of all Cut Flower varieties and are
prepared to make low prices on them, either for present
delivery or any time during Spring or Summer.

NEW ROSE WABAN. We can say for this rose that it is all that is
claimed for it, and a great addition to the
varieties of Cut Flower Roses. We will have a splendid stock of it to offer at
established prices.

WHOLESALE CATALOGUE IS NOW READY and will be
mailed free to all florists. Our
Retail Catalogue is admitted to be the finest and most instructive published. We
charge 25 cts. for it, but send it to florists on receipt of 10 cts. to cover postage.

B. A. ELLIOTT COMPANY,

54 Sixth Street, PITTSBURG, PA.

Mention American Florist.



JAPAN SNOWBALL.

Blooms freely every Spring. Flowers unsurpassed for florists' use.
Over \$150 realized last Spring from flowers sold at wholesale, from
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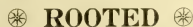
PRICE: 12 to 18 inches, \$2.00 per 10; \$18.00 per 100.
2 1/2 to 3 feet, \$3.00 per 10; \$25.00 per 100.

Wholesale Catalogue with colored plate of Japan Snowball free.

HYDRANGEA PAN. GRAND. Our one year old plants are superior to any offered,
and lower priced. 2 to 4 stems 18 to 24 inches, 75c.
for 10; \$6.00 per 100; \$50.00 per 1000.
2 to 2 1/2 feet, \$1.25 per 10; \$10.00 per 100.

MEEHAN'S NURSERIES,
STATION G, GERMANTOWN, PHILADELPHIA.

Mention American Florist.



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CUTTINGS.

Golden Bedder, Golden Verschoffeltii, Crimson
Verschoffeltii, Peter Henderson, Fireball,
Glory of Autumn, Sunray, J. Goode,
Crimson Bedder, Sunse, Etc.

Ten strong Cuttings each, of above ten varieties,
by Mail, One Dollar.

Twenty fine sorts, including above, five of each,
by Mail, One Dollar.

Write for prices on larger lots by Express. Samples of the
20 sorts mailed for 25 cts. All cuttings strong and
healthy, labeled, and well rooted.

ALEX. MCBRIDE, ALPLAUS, NEW YORK

Failure of Lilium Harrisii.

I note the query on page 410 of the AMERICAN FLORIST for January 29 regarding the failure of Lilium Harrisii.

Can the bulbs of Lilium Harrisii which did not start at all be dormant bulbs? It is a well known fact that with some bulbs and tubers, individuals are found which although remaining in a good state in the ground and pushing even sometimes roots, do not produce buds or stem, but remain dormant in the ground till the following year, when a natural growth is observed. Such are the underground parts sometimes of Ranunculus asiaticus varieties, of Geranium tuberosum, of Tropaeolum discolor, azurum and others and this too, not infrequently happens with Lilium Brownii. Here instead of the usual bud is only found the first year an agglomeration of young cells from which the next year the bud seems to be developed.

We do not remain to have found a similar condition in any other lily, so it would be of some interest to know whether Lilium Harrisii has also the same propensity to become sometimes dormant.

J. H. KRELAKE,
Haarlem, Holland.

If you have anything to sell to florists don't fail to advertise it in our special Easter number of forty pages, elegantly illustrated, and with a number of other special features. No increase in advertising rates.

Zirngiebel's Improved Strains

WHITE ASTERS, PERPETUAL WHITE STOCKS, GIANT MARKET and FANCY PANSIES; NEW HYBRID CARNATIONS, a cross between the Perpetual and Marguerites, and greatly superior for florists' use, in separate colors, pure yellow, white, pink and red shades. Any of the above seeds in trade packets at \$1.00 each.

Also the choice NEW CONTINENTAL CARNATIONS for 1891. Miss Moore, Mme. Gobet, Roi des Violettes, Bouton, d'Or, Geanne Michel, to be sent out March next.

Send for Descriptive List of all to

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.

NELLIE LEWIS.

HAVE GROWN THIS CARNATION TWO SEASONS AND NOW OFFER ROOTED CUTTINGS FOR IMMEDIATE DELIVERY

At \$2.50 per dozen. Four for \$1.00.

By mail postage.

GEO. HANCOCK, Grand Haven, Mich.

ROOTED CUTTINGS.

Now Ready.

Antennaria coronaria, 3 pl.; Abutilon var.; Gypsophila; Convolvulus Mauritanicus; Nierembergia gracilis; Chonostema hispidum; Fuchsia; Mesembryanthemum cordifolia var.; Agavea celestria; Begonia sandersonii & Brunelli alba, \$1.50 per 100; Geranium Mops, Gaileroi, Paris Daisy; Ochoona crassifolia; Heliotrope; German Ivy; Cuphea; Ageratium, blue and white; Chaphalium lanatum; Lantana; Double Sweet Alyssum; Senecio vernalis; Stevia serrata nana; Pilea muscosa; Saxifraga Serotoma, \$1.00 per 100.
Verbena, Vesta, finest white, \$1.00 per 100
general collection, 57 per 1000, 75 per 100
Roses, Hermosa, 2 1/2 in. pots, \$37.50 per 1000, 4.00 per 100
" Marie Guillot, 2 1/2 in. pots, 4.00 per 100
A. GIDDINGS, Danville, Ill.

DRACÆNA INDIVISA.

From 2 1/2 in. pots, per 100 \$3; per 1000 \$25. From 3 1/2 in. pots, per 100 \$5; per 1000 \$35. From 4 1/2 in. pots, per 100 \$8; per 1000 \$55. From 5 1/2 in. pots, per 100 \$10; per 1000 \$85. From 6 1/2 in. pots, per 100 \$12; per 1000 \$100. From 7 1/2 in. pots, per 100 \$15; per 1000 \$125. From 8 1/2 in. pots, per 100 \$18; per 1000 \$150. From 9 1/2 in. pots, per 100 \$20; per 1000 \$175. From 10 1/2 in. pots, per 100 \$22; per 1000 \$190. From 11 1/2 in. pots, per 100 \$24; per 1000 \$205. From 12 1/2 in. pots, per 100 \$26; per 1000 \$220. From 13 1/2 in. pots, per 100 \$28; per 1000 \$235. From 14 1/2 in. pots, per 100 \$30; per 1000 \$250. From 15 1/2 in. pots, per 100 \$32; per 1000 \$265. From 16 1/2 in. pots, per 100 \$34; per 1000 \$280. From 17 1/2 in. pots, per 100 \$36; per 1000 \$295. From 18 1/2 in. pots, per 100 \$38; per 1000 \$310. From 19 1/2 in. pots, per 100 \$40; per 1000 \$325. From 20 1/2 in. pots, per 100 \$42; per 1000 \$340. From 21 1/2 in. pots, per 100 \$44; per 1000 \$355. From 22 1/2 in. pots, per 100 \$46; per 1000 \$370. From 23 1/2 in. pots, per 100 \$48; per 1000 \$385. From 24 1/2 in. pots, per 100 \$50; per 1000 \$400. From 25 1/2 in. pots, per 100 \$52; per 1000 \$415. From 26 1/2 in. pots, per 100 \$54; per 1000 \$430. From 27 1/2 in. pots, per 100 \$56; per 1000 \$445. From 28 1/2 in. pots, per 100 \$58; per 1000 \$460. From 29 1/2 in. pots, per 100 \$60; per 1000 \$475. From 30 1/2 in. pots, per 100 \$62; per 1000 \$490. From 31 1/2 in. pots, per 100 \$64; per 1000 \$505. From 32 1/2 in. pots, per 100 \$66; per 1000 \$520. From 33 1/2 in. pots, per 100 \$68; per 1000 \$535. From 34 1/2 in. pots, per 100 \$70; per 1000 \$550. From 35 1/2 in. pots, per 100 \$72; per 1000 \$565. From 36 1/2 in. pots, per 100 \$74; per 1000 \$580. From 37 1/2 in. pots, per 100 \$76; per 1000 \$595. From 38 1/2 in. pots, per 100 \$78; per 1000 \$610. From 39 1/2 in. pots, per 100 \$80; per 1000 \$625. From 40 1/2 in. pots, per 100 \$82; per 1000 \$640. From 41 1/2 in. pots, per 100 \$84; per 1000 \$655. From 42 1/2 in. pots, per 100 \$86; per 1000 \$670. From 43 1/2 in. pots, per 100 \$88; per 1000 \$685. From 44 1/2 in. pots, per 100 \$90; per 1000 \$700. From 45 1/2 in. pots, per 100 \$92; per 1000 \$715. From 46 1/2 in. pots, per 100 \$94; per 1000 \$730. From 47 1/2 in. pots, per 100 \$96; per 1000 \$745. From 48 1/2 in. pots, per 100 \$98; per 1000 \$760. From 49 1/2 in. pots, per 100 \$100; per 1000 \$775. From 50 1/2 in. pots, per 100 \$102; per 1000 \$790. From 51 1/2 in. pots, per 100 \$104; per 1000 \$805. From 52 1/2 in. pots, per 100 \$106; per 1000 \$820. From 53 1/2 in. pots, per 100 \$108; per 1000 \$835. From 54 1/2 in. pots, per 100 \$110; per 1000 \$850. From 55 1/2 in. pots, per 100 \$112; per 1000 \$865. From 56 1/2 in. pots, per 100 \$114; per 1000 \$880. From 57 1/2 in. pots, per 100 \$116; per 1000 \$895. From 58 1/2 in. pots, per 100 \$118; per 1000 \$910. From 59 1/2 in. pots, per 100 \$120; per 1000 \$925. From 60 1/2 in. pots, per 100 \$122; per 1000 \$940. From 61 1/2 in. pots, per 100 \$124; per 1000 \$955. From 62 1/2 in. pots, per 100 \$126; per 1000 \$970. From 63 1/2 in. pots, per 100 \$128; per 1000 \$985. From 64 1/2 in. pots, per 100 \$130; per 1000 \$1000. From 65 1/2 in. pots, per 100 \$132; per 1000 \$1015. From 66 1/2 in. pots, per 100 \$134; per 1000 \$1030. From 67 1/2 in. pots, per 100 \$136; per 1000 \$1045. From 68 1/2 in. pots, per 100 \$138; per 1000 \$1060. From 69 1/2 in. pots, per 100 \$140; per 1000 \$1075. From 70 1/2 in. pots, per 100 \$142; per 1000 \$1090. From 71 1/2 in. pots, per 100 \$144; per 1000 \$1105. From 72 1/2 in. pots, per 100 \$146; per 1000 \$1120. From 73 1/2 in. pots, per 100 \$148; per 1000 \$1135. From 74 1/2 in. pots, per 100 \$150; per 1000 \$1150. From 75 1/2 in. pots, per 100 \$152; per 1000 \$1165. From 76 1/2 in. pots, per 100 \$154; per 1000 \$1180. 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From 131 1/2 in. pots, per 100 \$264; per 1000 \$2005. From 132 1/2 in. pots, per 100 \$266; per 1000 \$2020. From 133 1/2 in. pots, per 100 \$268; per 1000 \$2035. From 134 1/2 in. pots, per 100 \$270; per 1000 \$2050. From 135 1/2 in. pots, per 100 \$272; per 1000 \$2065. From 136 1/2 in. pots, per 100 \$274; per 1000 \$2080. From 137 1/2 in. pots, per 100 \$276; per 1000 \$2095. From 138 1/2 in. pots, per 100 \$278; per 1000 \$2110. From 139 1/2 in. pots, per 100 \$280; per 1000 \$2125. From 140 1/2 in. pots, per 100 \$282; per 1000 \$2140. From 141 1/2 in. pots, per 100 \$284; per 1000 \$2155. From 142 1/2 in. pots, per 100 \$286; per 1000 \$2170. From 143 1/2 in. pots, per 100 \$288; per 1000 \$2185. From 144 1/2 in. pots, per 100 \$290; per 1000 \$2200. From 145 1/2 in. pots, per 100 \$292; per 1000 \$2215. From 146 1/2 in. pots, per 100 \$294; per 1000 \$2230. From 147 1/2 in. pots, per 100 \$296; per 1000 \$2245. From 148 1/2 in. pots, per 100 \$298; per 1000 \$2260. From 149 1/2 in. pots, per 100 \$300; per 1000 \$2275. From 150 1/2 in. pots, per 100 \$302; per 1000 \$2290. From 151 1/2 in. pots, per 100 \$304; per 1000 \$2305. From 152 1/2 in. pots, per 100 \$306; per 1000 \$2320. From 153 1/2 in. pots, per 100 \$308; per 1000 \$2335. From 154 1/2 in. pots, per 100 \$310; per 1000 \$2350. From 155 1/2 in. pots, per 100 \$312; per 1000 \$2365. From 156 1/2 in. pots, per 100 \$314; per 1000 \$2380. From 157 1/2 in. pots, per 100 \$316; per 1000 \$2395. From 158 1/2 in. pots, per 100 \$318; per 1000 \$2410. From 159 1/2 in. pots, per 100 \$320; per 1000 \$2425. From 160 1/2 in. pots, per 100 \$322; per 1000 \$2440. From 161 1/2 in. pots, per 100 \$324; per 1000 \$2455. From 162 1/2 in. pots, per 100 \$326; per 1000 \$2470. From 163 1/2 in. pots, per 100 \$328; per 1000 \$2485. From 164 1/2 in. pots, per 100 \$330; per 1000 \$2500. From 165 1/2 in. pots, per 100 \$332; per 1000 \$2515. From 166 1/2 in. pots, per 100 \$334; per 1000 \$2530. 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From 311 1/2 in. pots, per 100 \$624; per 1000 \$4705. From 312 1/2 in. pots, per 100 \$626; per 1000 \$4720. From 313 1/2 in. pots, per 100 \$628; per 1000 \$4735. From 314 1/2 in. pots, per 100 \$630; per 1000 \$4750. From

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HECTOR,

a brilliant, dazzling scarlet, very large flower, free and continuous bloomer, plants strong and with robust constitution. Have not seen its equal. No grower should be without it.

MRS. FISHER, the peerless white, and **FERDINAND MANGOLO**, the leading crimson.

Send for Catalogue containing general list of Carnations and Chrysanthemums.

R. T. LOMBARD,
WAYLAND, MASS.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. Shelmire,
AVONDALE, PA.

CARNATIONS.

ROOTED CUTTINGS

of New and Old varieties at the lowest price possible to secure good stock from healthy plants. Seventy-five thousand will be ready by Feb. 1st. Send for catalogue or price list.

SEND ORDERS EARLY.
ISAAC LARKIN, Toughkenamon, Pa.
Mention American Florist.

ROSES AND CARNATIONS.

I shall have for spring delivery a surplus stock of plants in 2½, 3 and 4-in. pots, in the very best condition, of the following roses:

AMERICAN BEAUTY, DUCHESS OF ALBANY,
MME. HOSTE, SOUVENIR DE WOOTTON, LA
FRANCE, MERMET, PERLE DES JARDINS,
BRIDE and **NIPHOTES**. And of

CARNATIONS

SILVER SPRAY, **TIDAL WAVE**, **PORTIA**,
AND **PRESIDENT DE GRAV**.

All of the above stock will be in first-class condition and guaranteed to give satisfaction. Orders booked now to be filled at any time desired. Price list on application.

O. P. BASSETT,
HINSDALE, ILLINOIS.

Carnation Cuttings.

Boxed off and well established. Send for Price List.

DE WITT BROS.,
BRISTOL, PENNSYLVANIA

Rooted Cuttings of Carnations

In great quantity, ready now.

Also 25,000 **PEARL TUBEROSE BULBS**
1st size at \$7.00 per 1000.
2d size at \$5.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

CANNAS.

Ehemanni and **LaTour** de Grand Ronde. \$8.00
Emil Leclaire, **Noutoni** and **Adolph Weick**. 12 00
Tuberoses, **Pearl**. 2d size. per 1000 \$10.00
Culadim Esculentum, 1st size. 7 00
Can be in exchange, 1,000 Carnations, Rooted Cuttings.

E. S. NIXON & SON,
Chattanooga, Tenn.

White Day Lilies. \$10 per 100
Dahlias, fine assorted whole roots. 8 "
Amarylilis Johnsonii, stock limited, 30 to 40 each.
McCREA & COLE, Battle Creek, Mich.

THE LATEST AND GRANDEST NOVELTY OUT.

NELLIE LEWIS CARNATION.



Flowers very large and full, and of a color never before seen in Carnations — AN EXQUISITE SHADE OF PINK.

W. J. PALMER & SON,
Florists of Buffalo, N. Y. say:

"I had an opportunity of seeing Nellie Lewis Carnation in full bloom on Jan. 16th, and a grand sight it was. I consider it a better and finer Pink Carnation than Grace Wilder. Though the flowers do not demand \$1.00 each as we read about of late, they will get there just the same."

For decorative purposes and corsage bouquets, they are unsurpassed. A bowl filled with them used at a dinner a short time ago, lighted up the entire table. Don't fail to place your order at once, as we control the entire stock and have only a limited number of plants.

Price, Rooted Cuttings, per 100, \$10.00.

Plants, 2-in. pots, per 100, \$12.00.

VICK'S SEEDS NEVER DISAPPOINT, is the verdict of the millions who have planted them.

VICK'S FLORAL GUIDE for 1891, contains over 100 large pages, hundreds of illustrations, colored plates, Best Novelties, all worthy of cultivation; \$1.00 and \$2.00 cash prizes. Price, 10 cents, which deduct from first order and it costs NOTHING.

JAMES VICK, SEEDSMAN, Rochester, N. Y.

CARNATIONS!

LIZZIE MCGOWAN,
FRED. CREIGHTON,
GOLDEN GATE.

FAIR ROSAMOND, **J. R. FREEMAN**, **HECTOR**, **MRS. FISHER**, **WM. F. DREER**, **CHASTITY**, **SILVER SPRAY**, **TIDAL WAVE**, **GRACE WILDER**, **L. L. LAMBORN**, **CONSTANCY**, **EDELWEISS**, **EMILY LOUISE TAPLIN**, **ANGELUS**, **LOUISE PORSCHE**, **NELLIE BLY**, **DOROTHY**, **DAY BREAK**, and sixty other leading varieties. 50,000 now in cutting bench. Send for price list, and order early.

GEO. HANCOCK, Grand Haven, Michigan.

FRED CREIGHTON.

ROOTED CUTTINGS of this Superb Pink Carnation, \$4.00 per hundred and \$30.00 per thousand. From the original stock, which has not been forced or in any way made to produce an extra quantity of **CHEAP** Cuttings at the expense of the future well doing of the same.

To give all a chance to see what kind of flowers this stock produces, I will send a few forets, free of charge, to any in the trade who apply to me by letter.

GEORGE GREIGHTON, NEW HAMBURG, N. Y.

CHRYSA NTHEMUMS, Per 1000, \$25.00

\$25.00, many choice varieties. \$3.00

GERANIUMS, 10 to 20 splendid sorts. 3 00

ROSES, all the best standard vars., my selection. 4 00

VERBENAS, in good varieties. 2 50

ALYSSUM, dbl. white, nice young plants 3 00

CANNAS, in six splendid vars. 3 00

DOUBLE WHITE FEVERFEW, strong 2-inch, ready to shift. 3 00

HELIOTROPE, Garfield (best purple) 2½-inch. 3 00

SALVIA, scarlet, white, black & var 3 00

Address **N. S. GRIFFITH,**

JACKSON CO. INDEPENDENCE, MO.

Independence is well located for shipping, being 8 miles east of Kansas City.

FRESH, FANCY FLOWER SEEDS.

Improved and Superior Strains of Show Flowers for Competitive Exhibition Purposes.

ASTER—Prize Cut Flower varieties. **Buckbee's Showlike**, the finest pure white variety ever introduced, either for cut flower work or general garden purposes. It is of the form, very lasting, shows no discolored center, and I can recommend to be at all in respect. Trade packet 3c.

Aster—Washington light blue, cherry red chrysanthemum. Trade packet 2c.

PANSY—Cassier's Mammoth, large flower, \$1.00

Bugnot's Prize, superb blotched. 1 00

—Trimardeau Mammoth Giant, mixed. 50

—Finest mixed, superior quality. 50

—Twenty separate colors. 25

Send for my Wholesale List of florists greenhouse seeds free. I solicit your trade.

H. W. BUCKBEE,
ROCKFORD, ILL.

Every Florist! Every Nurseryman! Every Seedman!

SHOULD HAVE OUR TRADE **DIRECTORY.**

Address **AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.**

Butted Glass in Glazing.

I note Mr. Chas. Everding's mention of butted glass in glazing greenhouses on page 454, No. 141 of the AM. FLORIST, and wish to say that he goes to unnecessary trouble when he uses sheet wadding to stuff between glass and cap. I have been using butted glass several years and have 15,000 feet glazed in that way. There is no leakage and I will pay a premium for every pane found rattling in the wind. I send a drawing of the sash bar and cap used. The glass is 16x16. The caps are attached to the sash bars by 1 1/2-inch, No. 8, round head screws, one screw in the center of each pane. The glass is laid without any putty and screwed down tight enough to make the head of the screws sink well in to the cap. This method of glazing will give you a roof that will not cause any drip on the benches and is much better in every way than a roof glazed by laying the glass in putty. Brampton, Ont. H. DALE.

Fungus in the Cutting Bench.

In regard to the question about fungus in the cutting bench I would suggest that the trouble is in the temperature and not in the sand. If the overhead temperature is kept from 50° to 60°, with bottom heat 10° to 15° higher you will not be troubled with fungus and will have healthier cuttings. JOSEPH KIFT. West Chester, Pa.

TRADE LISTS published in the AMERICAN FLORIST are bound in with the paper and are of permanent value. Of those which reach the trade otherwise many go into the wastebasket, and some into an obscure pigeon-hole. Which way are you going to circulate your trade list?

MARCH OFFERS.

Achillea Gom (Pearl), new white flowering hardy perennial, flowering nearly all summer. One for florists, mail 2 for \$1.00, express \$1.25 per 100 pot plants.
Begonia Countess L. Erdody, the old rex sort, strong plants, mail \$1.35 per doz., express \$1.25.
Carnation P. Creighton, new pink sort, extra, mail 12 for \$1.00.
Carnation Lamborn, \$1.00 per 100 Ex.
Carnation Daisy white G. Wilder \$3.00 per 100 Ex.
Petunia Mrs. Morton, tested with all the fringed double white sorts last season, this proved the best grower of all, heavily fringed, extra, mail \$1.10 per doz. Ex. \$5.00 per 100.
Petunia Showgirl, Imp. Double White, mail \$1.00 per doz., \$5.00 per 100 Ex.
Gloxinas, Crasifolia varieties, medium bulbs, will all bloom this summer, fine strain mixed, mail 20 for \$1.00, 100 for \$4.50.
Gloxinia Hybrid Aida, the new pure white sort, a fine grower, medium bulbs, mail 10 for \$1.00.
Peverfew, Little Gem, \$1.00 per 100 Ex.
Alyssum, Double Tom Thumb, \$1.00 per 100 Ex.
Fuchsia Phenomenal, Imp. Y. Vertic. Lovely Storm King, Monarch, C. Holt, Black Prince and other sorts \$3.00 per 100 Ex.
Clematis, variegated, rooted cuttings, \$2.00 per 100.
Address Seed, Truefitts' Perfection Imp., mixed 1250 growth, 1/2 oz. doz. or 40c. or \$1.00.

Address **ELLIS BROS., Keene, N. H.**



Florist's Letters.

Emblems, Monograms, Etc. These letters and designs are made of the best immortelles, wired on wood or metal frames, having holes drilled in them to insert tooth-picks by which they are fastened to the design. Give them a trial. You will find these goods to be Superior to any in the market. PAT. AUG. 6, 1889.

NOTE—All infringers or imitators of the above letters and designs will be prosecuted to the fullest extent.

Send for Sample.
2-10, purple, 5c. per 100, \$3.00
Postage, 15c. per 100.

W. C. KRICK,
1287 Broadway, Brooklyn, N. Y.

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J. C. VAUGHAN, CHICAGO, ILL.; H. BAYESDORFER & Co. Phila., Pa.; EDWARD S. SCHMIDT, Washington, D. C.; JAMES VICE, Rochester, N. Y.; J. A. SIMMER, Toronto, Ont.

DAHLIAS



R. GEORGE.

THE STORRS & HARRISON CO.,
Painesville, Lake Co., Ohio.

LILIUM WALLICHIANUM SUPERBUM.

HUGH LOW & CO., Clapton Nursery, London, England,

Have much pleasure in informing their friends and the public that they have just received from their collector in India a grand importation of the magnificent and deliciously-scented **LILIUM WALLICHIANUM SUPERBUM**, correctly described as the most beautiful of all the trumpet Lilies. Flowers are of the purest white, the tube about 10 inches long and the interior at the base of the most lovely shade of primrose-yellow.

MESSRS. WM. ELLIOTT & SONS, OF NEW YORK,
Have received a consignment of the bulbs of various sizes, and will be pleased to give quotations and execute orders for single bulbs or in quantity.

Apply

WM. ELLIOTT & SONS,
54 and 56 Dey Street, **NEW YORK CITY.**

OUR INTRODUCTIONS

NOW IN GREAT DEMAND.

- ORCHID CANNA** (C. flaccida).
Per 100, \$2.50; per 1000, \$20.
BUTTERFLY ORCHID (Epidendrum venosum).
Per 100 clumps, \$7; per 1000, \$50.
SPIDER LILY or Sea Daffodil (Pancratium).
Per 100, \$3; per 1000, \$25.
AIR PLANTS (Tillandsias).
Per 100 (large), \$6. This is extremely useful and beautiful in decorations, and very lasting.
SWORD FERN (Nephrolepis exaltata).
Strong plants, per 100, \$3; per 1000, \$20.
Write for our large illustrated Catalogue full of good things for the florist.

REASONER BROS., Manatee, Fla.

ORDER EARLY.

This lot of Seedlings are the best I have ever had—all strong plants.

PRIMULA SINENSIS FIMBRATA, CIN-
FERA HYBRIDA, GRAY'S FLO-
RELLIS (Snowball) in bloom and budding,
MILK MAIDS, CORN COPS, C. P. MAR-
GARET CARNATIONS, and LINUM FLA-
VUM. Write for prices. Cash with order.

A. DORR, W. T. STEPHENSON,
P. O. Box 388, Petersburg, Ill.

DOUBLE WHITE PRIMROSE PLANTS.

Five, large, healthy plants, from 3, 4 and 5-in. pots, at \$10, \$15 and \$20 per 100.
Dracena indivisa, from 2, 3 and 4-inch pots, at \$4, \$8 and \$12 per 100, strong stock.
Palm Brakes Filamentosa, 4-in. pots, \$12 per 100.
Also Single Primrose, Calceolaria rupestris, Callias, all sizes, Saxifrage, Echineria, Alternanthera, etc.
Also the new and leading varieties of Coleus, Geraniums, Chrysanthemums, Roses, Violets and other stock. Write for price list.
HENRY SMITH, 130 Monroe St., Grand Rapids, Mich.

The Street Fakir.

Some maintain that the sale of flowers on the street by the fakir injures the florist's business, and some hold that it does not. Does the street fakir who sells flowers injure the florist's business any more than the fakir who sells notions injures the dry goods men? The fakir always deals in second class stuff and the majority of the people who buy of these street peddlers would not go to a first class store to buy choice cut flowers. I believe that but few sales are lost to the dealers by the street fakir and that through them an enormous amount of second class stuff is disposed of that would otherwise never find a market. The way to abolish the street fakir is to grow less stuff but of a better quality. Growers are too much inclined to spread themselves out under a big lot of glass and then give the big space about half the attention and work that it ought to have. The result is a lot of flowers but mighty poor ones and if the fakirs didn't sell their flowers their product never would be sold. When a grower finds the fakirs his only means of marketing his stuff it is time for him to either improve the quality of his product or quit the business, but what he generally does do is to build another range of new houses, to be handled without any increase in his working force, and thus still further lessen his chances of producing good flowers. The fakir is the only hope of the men who plant roses and reap a crop of mildew, blackspot, red spider and wind. Do not ruthlessly cut them off from all hope of getting in enough cash to pay their coal bill. It is enough that they are out their own time and the other expenses of running their bullhead factories. M.

MARCH 19 we shall issue a 40-page number, which will be most beautifully illustrated and will contain a number of special features which will make it of unusual value.



EASTER LILIES.

Electro of this Cut (No. 924), \$1.

A. BLANC, PHILADELPHIA, PA.
Largest stock of Florists' Cuts in the world. Catalogue of 1,000 cuts 50 cents.

DON'T FAIL to secure a few plants of that wonderful VERBENA CLIMAXES. Have never seen anything better, all points considered (see ad. in January No.) Ready now, 5 for 96c; 12 for \$1; 25 for \$1.50. Heavy stonks, perfectly healthy. By the 100 and 1,000 in March and April. See other special offers.

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PROPAGATION BY SEPARATION.
PROPAGATION BY LAYERS.
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2 1/2 "	1,750	250 "
3 "	1,450	250 "
3 1/2 "	1,200	250 "
4 "	800	250 "
4 1/2 "	600	250 "

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5 "	7.00
5 1/2 "	8.00
6 "	9.00
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Vol. VI.

CHICAGO AND NEW YORK, MARCH 12, 1891.

No. 145.

THE AMERICAN FLORIST

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Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY.

54 La Salle Street, CHICAGO.

Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; WM. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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Inures greenhouses against damage by hail; JOHN G. ESSLER, Secretary, Saddle River, N. J.

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Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BEATTY, Sec'y, Oil City, Pa.

American Obrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LINDSALE, Chestnut Hill, Philadelphia, Pa., secretary.

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If you want an adv. in the double number to be issued next week, mail copy for it at once. It must reach us not later than Monday the 16th.

When you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

Boston.

¶ The March meeting of the Gardeners' and Florists' Club was made specially interesting by the presentation to Mr. James Comley of a beautiful clock. Mr. Comley has been for many years gardener in charge of the Hayes estate at Lexington and is one of our best known horticulturalists. The gift was in token of the high appreciation in which he is held by his brother gardeners as well as an acknowledgment by the club of their indebtedness to him for his kindly co-operation with his employer, Mrs. F. B. Hayes, in inviting and entertaining the Society of American Florists at Lexington, last August. The presentation address was made by Mr. Jackson Dawson, whose words were most happily chosen and Mr. Comley's reply in accepting the gift was received with rounds of applause. The clock is of black marble with heavy bronze ornamentation, and on a gold plate on the front is this inscription, "Presented to James Comley by the Gardeners' and Florists' Club of Boston, March 3, 1891."

At the same time Mrs. A. H. Hews was remembered by the club by a present of a pretty little silver tea service, suitably inscribed in acknowledgement of her attentions to the visiting ladies last August. The business of the evening, a discussion of the question of "City Water Rates" was, owing to the time consumed by the above mentioned exercises and by various committee reports, etc., postponed until the April meeting. The semi-annual report of the treasurer showed a gratifying financial condition. A committee was appointed with power to have the club incorporated.

A gardener who is rapidly making a big reputation for his skill in horticulture is Mr. Kenneth Finlayson, gardener to Dr. C. E. Weld. His cinerarias are just now well worth a trip to Brookline to see. These as well as the superb primulas and cyclamens are all from seed saved by Mr. Finlayson. The colors and markings are magnificent, and many of the blooms measure three to four inches across. Better shaped plants it would seem impossible to obtain. The carnations and roses, in fact everything in the houses are in splendid condition. The only unfavorable feature in the whole establishment is the presence in large numbers of that much dreaded pest the "orchid fly" which has made sad havoc with the young cattleya growths and for which, so far, no remedy or preventive has proved successful. In one of the houses is a fine set of seedling geraniums from seed resulting from crosses of Cannel's new set of 1890. Some of these are remarkably brilliant in color. The circular show house at the end of the range is gorgeous with masses of Streptosolen Jamesonii, cytises, mahernias, begonias

and tulips. On the wall in the potting room are already 74 prize cards of the Massachusetts Horticultural Society all of which Mr. Finlayson has won during the past two years.

Dr. Weld's estate is beautifully situated on high ground in Brookline, the view from the greenhouses taking in the whole city of Boston and suburbs. He is one of the many private gentlemen whose generosity was so freely extended to the Gardeners' and Florists' Club when they were preparing to extend a fitting welcome to the national society.

The lecture before the Massachusetts Horticultural society on Saturday, March 7th, was by Wm. G. Farlow, professor of Cryptogamic Botany at Harvard College, on "The Diseases of Trees Likely to Follow Mechanical Injuries." The subject was illustrated by numerous stereopticon views, and proved to be very interesting, bringing out quite an extended discussion.

Jackson Dawson exhibited a very beautiful plant of his rose, a cross between Multiflora Japonica, and Jacqueminot. It formed a shapely bush about three feet high, and bearing not less than 500 buds and blossoms. The flowers are about two inches across, light rose colored and fragrant; a certificate of merit was awarded this plant.

Mr. Dawson also showed some large clusters of Andromeda speciosa and Viburnum plicatum, forced.

Pitcher & Mandia exhibited half a dozen plants in bloom of the new hardy Azalea rustica. The flowers are semi-double and of good substance. They received a certificate of merit.

Presentations seem to have been in the air for the past week. On Saturday afternoon about twenty-five gentlemen participated in a most enjoyable occasion at the Tremont House. The immediate cause of the gathering being the presentation of a handsome easy chair to Mr. Edwin Sheppard, of Lowell, by his many friends among the fraternity. The ceremony was performed in a most original and witty manner by Judge Hoitt, of Nashua, who had the recipient comfortably seated in the chair and wondering what was the matter before he informed him of his good fortune.

Mr. Sheppard was taken by surprise, but was soon able to express his appreciation of the compliment and thank the donors. After the presentation, the company sat down to an appetizing repast, and with speeches, stories and songs the evening passed most pleasantly away. The honors in story telling were divided pretty evenly between Jackson Dawson and Judge Hoitt, while Warren Ewell and James Comley were easy winners in the singing contest. Mr. M. H. Norton having recently received a present of a large pickerel, which is a fresh water fish, in whose capacious stomach was

found a herring, which is a salt water fish, has been cudgelling his brain and torturing his friends for the past few days trying to find out where the pickered could possibly have caught the herring, hence he was unusually quiet on this occasion.

There is no member of the fraternity here more worthy of the attention shown than was the guest of the evening, Mr. Sheppard. He is one of our oldest and most honored florists. Although his hair has been for many years white, yet his heart is as young as the youngest, and he possesses the happy faculty of being always cheerful and bright, no matter what trouble may come. At his home in Lowell, he is always ready with a kindly and hospitable welcome for any of the boys who may chance to call, and long may he live to enjoy his easy chair and to gladden our hearts with his sunny smile.

W. J. S.

New York.

Trade during the past week was very dull, everything at a standstill with an abundance of flowers everywhere.

Siebrecht and Wadley's annual orchid show at the Madison Square Garden was a great success artistically and financially. The designs by Mr. J. F. Barrett were very artistic covering as it were bits of scenes from many lands. On entering the main hall we found ourselves in a Dutch flower garden, the beds being prettily arranged in tulips, hyacinths and other bulbous flowers whilst away to our left a fine border of choice conifers gave a natural touch to the scene. Further on we came to the English Garden, with its beds of hybrid roses in bloom; here also were beds of marguerites, cinerarias, azaleas, primroses, geraniums, etc., flanked by groups of fine foliage plants. Beyond this the elegant statues of statuary, the fine gravelled paths and the beautiful carpet bedding tells us we are in the Italian garden, and last and most romantic of all is a scene from the famous Ponce de Leon, with its winding stairs over crystal fountains, and here and there bits of scenery that delight the eye. Here we found a bank of superb phalenopsis in variety; they were certainly the finest seen here in a long time.

In return to the center of the hall and behold one of the grandest collections of orchid blooms ever seen here. They are exhibited by Kimball, of Rochester, N. Y. Here a group of cypripediums show their beautiful tints lost in a mass of Lycaste Skinneri. Above these again great masses of cattleyas and phalenopsis with immense dendrobiums hanging from the towering palms above, the whole forming a beautiful center. All it seemed to lack was a fountain here; that would have been beneficial to the plants, and a great addition to the surroundings. Considering everything it was one of the best arranged exhibitions ever given here.

The failure of *L. longiflorum* has been quite extensive here, but there will be enough Harrisias to meet the Easter demand. There are some very fine azaleas in already. It is feared hydrangeas will be too late for Easter.

Mr. May's suggestion in your last issue regarding the carnation contest is an admirable one and should be acted upon by all concerned. Judging from the amount of entries from the different classes already received, our spring show will be one of the most important ones from a trade standpoint ever held. Anyone having novelties or new flowers of any kind will find his opportunity here.

Herman Kuhn had a table decoration for a large dinner given by Mrs. Lederer. The round center piece was composed of magnificent *La France* as if growing on their bushes, the longer ones being bent over forming miniature arches, garlands and favors of the same rose being artistically placed round the border.

McConnell had the decorations for the New York Yacht Club dinner given at the Murray Hill Hotel, the design being a facsimile of the victorious Volunteer, made of Mermets and hyacinths.

JOHN YOUNG.

New York Floral Notes.

Our florists have seldom had so much to do as this Lenten season, when they have been all the time busy with balls, parties or weddings. The Arion Ball which was done by Hanft Bros. was a very elegant and elaborate floral decoration in Madison Square Garden. There were three immense streamers of nine strands of flowers and leaves suspended in graceful festoons from the ceiling, the whole length of the garden, while at each side of the big room was a floral eagle, fourteen feet from tip to tip, suspended from the arches with festoons of orchids, smilax and roses.

The first tier of boxes was festooned with roses, lilacs and tulips, all the enclosed boxes at the ends of the building were decorated with garlands of hemlock or laurel and diamond or heart shaped figures of natural flowers. The second tier of boxes were ornamented with garlands of laurel and evergreens of many sorts interspersed with flowers.

Mr. P. L. Bogart has made up several fern baskets with ribbons tied on the side handles, which make a particularly pretty dinner decoration. These baskets are from two to three feet in length, and have a straight line of roses directly through the centre and pink ribbons on the handles. Another basket had red tulips through the centre, and this was tied on its handles with deep red ribbon. Another one still had yellow tulips through the centre and yellow ribbons on the handles.

For a wedding on the 5th of the month, the church in 66th street and Madison avenue was decorated with palms and two large bunches of Easter lilies. There was a large wreath of *La France* roses under which the pair stood to receive their friends. Palms stood each side of this wreath, which made a very pretty decoration. The stairs were twined with smilax, and there were large bunches of daffodils at each step, tied on the banisters with ribbon of the same color. This is an exceedingly nice way of dressing banisters. The hall mirror was banked with plants, and a wreath of crimson carnations was placed at the top of the mirror.

Ladies are decorating themselves with large bunches of daffodils, with a yellow genista fringing to wear in the street. Another bouquet that is much worn is a bunch of violets at the breast, and a large bunch of heliotrope in the muff.

McConnell did the Lincoln dinner of the Republican Club, which took place at Delmonico's. There were three large tables which were covered artistically with pink roses laid on in a loose fashion. Each guest had a cluster of violets.

John Morris the florist of Jefferson Market has been busying himself with trying to get the market florists a position on Union Square in which to sell their goods from their wagons next summer. They will go there early in the mornings to make their sales, and are expected to be away from Union Square by seven o'clock.

Mr. Morris is also interested in the planting of trees in all localities where the streets are wide enough to allow it. He hopes to do a great deal for our florists in the way of getting these motions passed.

Mr. Thorley has been making several boxes of crocuses, which are gotten up very prettily. These were the dark purple kind, which had bright yellow stems. He arranged one decoration of these plants in a square box which was trimmed with gilt all around the sides. This box had a purple satin ribbon about it, which made the crocuses look very dresy, and a large bow was placed at one side. The box of these flowers was arranged for a dinner table where the lady was in mourning and there were bunches of violets for every lady guest.

A pansy dinner was arranged by Mr. Bogart for Mrs. Cleveland. There was a centre piece of yellow and purple pansies in an ordinary flat basket, which was set on a silver basket. There were also favors of these pretty flowers.

All of our florists made handsome pieces for the funeral of General Sherman. Thorley decorated his picture with violets and lily of the valley, McConnell made a piece of three palm leaves with white roses at the handle. Klunder also made a very handsome piece, which was of palm leaves with a crown of white roses on the stems.

F. A. BENSON.

Our Paris Letter.

After the very hard winter, Paris is beginning to bloom again, the streets are filled with little two-wheeled carts attended by old women, and piled high with fresh green Mahonia branches, holly and sometimes even mistletoe, which hangs thick in the trees in the country. In the city great heaps of acacia branches in full flower, bunches of Roman hyacinths, paper white narcissus and of violets complete the rather monotonous stock. But how temptingly they are displayed! Bunches of thirty to fifty violets for two cents, eight or ten Romans, small sprays for ten cents, a little branch of acacia for a cent or two more. Narcissus are still a little higher and the white lilacs which often appear, cost ten to fifteen cents a spray, forced though they are. Lilacs are the standard winter flowers here and until within a couple of weeks have furnished the main part of every fine piece I have seen.

Roses are only now beginning to appear, the little "hubbins" from Nice that have been exhibited in the window-corners during the winter, would hardly be called roses with us, but now and then during the past week I have seen a fair cluster of roses displayed. Among the shops in the boulevards, however, the preference is for the tall sprays of lilacs, massed in immense round flat baskets with high handles twined with satin ribbon and ornamented with large bows. There is very little mixture of color, the ribbons, which are very freely used, matching the flowers to a nicety. The handsomest piece of a very fine show last week was a flat round basket about thirty inches across, covered with white satin and filled very high with white azalea branches in snowy bloom, the high square handle being decorated with an immense satin bow, the whole piece being nearly five feet high.

Dutch bulbs are also becoming more plentiful, and not being forced very fast are very perfect. A popular fancy for lilies of the valley is to put them, planted in moss and crowded close together into



FLORAL ARRANGEMENT.

square or oblong baskets with a canopy or roof, each corner of which has the inevitable ribbon bow. An oval basket filled with nearly a dozen perfect blooms of single pink hyacinths, (Gertrude I think) had the tint of the flowers repeated in the ribbon. Again, a round low dish of double Tournesol tulips had a handle twined with ribbons of orange and crimson. The opposite extreme is sometimes reached with very good effect by crowding a jardiniere with blooms of all colors and varieties of hyacinths and tulips. A pretty piece was a large rush bowl filled with tall sprays of white lilacs and feathery yellow anemons with the natural foliage of both. A very handsome window full of decorative plants contained a number of fine araucarias, with the spaces between the branches decorated with great bunches of pink and blue ribbons; the effect was odd, but certainly very gay and pretty.

For funerals, immense wreaths of violets, edged with some white flower just to show the outline, and wreaths of white or purple lilacs are almost the only things used; sometimes a large cross of violets, or in the case of an officer or celebrated person a long cypress leaf with an inscription on the ribbon. Artificial flowers are much used for funerals among the poorer classes, and are universally used for house decoration. Plants are imitated with yellow leaves that one aches to nip off, and bouquets of roses that lack only perfume, ornament many a dinner table. These things have had their day, however, and now on two mornings of the week the flower markets are filled with finely grown primulas, cyclamens, bulbous plants and azaleas in their white paper wrappings; but of them another time.

F. L. V.

DOUBLE Easter number next week.

Floral Arrangements.

We present herewith an engraving from a photograph of a very effective floral arrangement sent us by Mr. H. H. Battles, Philadelphia. The engraving speaks for itself.

Bucksport, Me.

About thirty members of the Maine Pomological Society visited Bucksport as the guests of Mr. F. H. Moses, on Thursday, February 26.

After being shown through the extensive rose houses, the company was handsomely entertained by Mr. and Mrs. Moses at their residence.

Maine has cause to feel proud of the recent advancement of one of her bright young men. Mr. Merritt L. Fernald, son of the President of the Maine State College at Orono has been called to

take the position of assistant botanist and herbalist at Harvard University. The appointment has created quite a sensation; the young man is but sixteen years of age. Those who know him have no doubt of his ability, however, for his achievements have been for some time attracting much attention in scientific circles, and he has long since mastered the entire flora of Maine and Northern New England, besides discovering and classifying a large number of hitherto unknown species. A great future is predicted for him. S.



Lamborn vs. Mrs. Fisher.

MR. EDITOR: I was content to leave the subject of "Carnation Lamborn"—not so with him. Chitty's answer in your No. 140—not so with him. He seems bound to "boom" Lamborn regardless of his own damaging figures; but I am of opinion that those growers who have to take the early train with a box on their arm, and who have to be satisfied with the prices weekly quoted in your paper, cannot be hood-winked by his statements of a carnation, which by his own showing has only produced a trifle better than one flower per plant per month up to the first of the present month.

The fact is that with this production of bloom—no person outside of Paterson, N. J., and I have heard it said that New Jersey was a foreign country) could pay their coal bill with such results. I think I can safely say that ninety-nine out of every hundred of the growers in the United States will join me in saying that if Lamborn is to be judged by Mr. Chitty's showing of bloom, it would be hard to find a poorer variety. Very few growers sell cuttings, but depend on the flowers, and it is the price they get and not whether Mr. Chitty gets 10 cents or \$10 apiece for his flowers, that they judge the profit by.

Evidently Mr. Chitty sees he has—as well as the "boys" say "slopped over," and to cover the real issue, makes a challenge, not to deadly combat, but with that which to those who grow carnations for \$2 per hundred, (and therefore have no bank account) is quite as formidable, namely, money, and I am the party who is indirectly asked to "knock the chip from his shoulder."

Up to this time I have not, either directly or indirectly alluded to Mrs. Fisher. I need only say, this carnation, like all others must stand on its merits, if found worthy it will assert itself, if worthless it will be discarded as Lamborn has been by a large number who have tried it.

I cannot be induced to wager money, but in a modified form as stated below, I will accept Mr. Chitty's challenge and in doing so I avail myself of such rights as a challenged party is entitled to.

I will on Tuesday, June 9, 1891, exhibit fifty flowers of carnation Mrs. Fisher against fifty flowers of the carnation L. Lamborn, to be judged by the following scale of points.

First. Size and form of flower.

Second. Fullness and substance of flower.

Third. Keeping qualities of flower.

Fourth. Fragrance of flower.
Conditions: Flowers to be kept three days, as a test of keeping qualities; the referee to take into consideration the fact that the flowers of Mrs. Fisher, will have been cut earlier and transported further than Lamborn.

The referee to be Wm. Falconer; the location at Mr. Falconer's place of business, Glen Cove, L. I.; the flowers to be delivered on or before 12 o'clock m. on the said 9th of June.

If Lamborn wins, I agree to pay to the Society of American Florists the sum of \$50 within ten days after the award is made, and, if Mrs. Fisher wins, Mr. Chitty is to pay the sum of \$50 to said society within ten days after award. The referee to make his report in the AMERICAN FLORIST.

If these terms are accepted I am to receive notice on or before April 3, 1891.

I name Mr. Falconer for three reasons: First, he is not engaged in commercial trade; second, for his eminent ability; third, for his high honor and integrity. I state upon my honor, that I do not know Mr. Falconer and have never to my knowledge seen him.

I do not believe in this kind of business, or that it should be encouraged, and my only reasons for replying, are that to refuse might be considered a species of moral cowardice, and that I have unbounded faith in Mrs. Fisher.

I also believe that this variety will not cause either the originator or introducer to retract what was said of it when introduced, that "while it is not claimed as a perfect ideal in all respects, it is so good, so much better than the old sorts, even the new whites recently sent out, that it will find a place for itself upon its merits."

This is my last communication on this subject, and I hereby serve notice that I cannot be induced to continue it further and shall very respectfully decline to keep up a newspaper controversy, no matter what may be said, for I deem it to be as unprofitable to me as to grow the Lamborn carnation. R. T. LOMBARD.

Wayland, Mass., Feb. 25, 1891.

Heavy Expenses.

I shall not undertake to reply in detail to Mr. Chitty's article in the FLORIST of February 26th, as it would take too much time and use up too much space in your journal, but will call attention to a few of the many curious things in his statements.

Imagine a level-headed business man propagating 40,000 rooted cuttings of Lamborn for sale at \$2 a hundred or \$15 a thousand, when according to his own statement every cutting would have been a flower which he could have sold at \$5 a hundred or \$50 a thousand. Mr. Chitty says he got \$350 net for the 40,000 cuttings and as he also states that he received \$50 a thousand for the flowers we find that according to his own statement he sacrificed \$2,000 worth of bloom in order to secure \$350 worth of rooted cuttings.

Mr. C. has evidently reversed the old business maxim, "buy cheap and sell dear." According to his own statement some of those fine Lamborn flowers he is willing to exhibit and even to put money up on were sold through a commission man at \$2 a hundred less charges, but when he bought white carnations at the time his he bought were between crops he paid \$3 and \$4 a hundred. This is a clear case of buying dear and selling cheap.

Mr. C. contemptuously tells Mr. Nich-

olson that "the insignificant little dab of \$437.50" would hardly pay the taxes on one of his lots 20x100 feet, but in the next issue he informs us that his taxes on a lot 25x100 is 2 1/2% of \$2,500 or \$75. These are his own figures. If Mr. C. knows what he is about, why do his figures so lamentably fail to agree? And can it be possible that Mr. Chitty does not know that 2 1/2% of \$2,500 is not \$75? If he is so weak on his multiplication tables he had better study up before making any more statements.

Again in comparing the space devoted to carnations, for his own house he gives the square feet of bench room only, while for our house he gives the whole surface under glass, paths and all. Of what value is such a comparison?

The funniest thing of all is the pleasant way Mr. C. has of ascertaining the cost of production. He divides the gross receipts by two, and one-half is expense, the other half profit. According to his statement his expenses and his net profits on one house were each \$3,237.50. This is \$800 a month for in round figures \$27 a day. The profits will make the average grower's mouth water, but the expense is simply appalling. It cost Mr. Chitty \$800 a month to run one greenhouse, according to his statement. Certainly he will not ask us to believe this. Such wild statements make discussion unprofitable, hence this will be my last communication on this subject.

Bristol, Pa.

THOMAS DEWITT.

Chicago Carnation Notes.

Messrs. Schiller & Mailander and Mr. F. Stielow are large growers of cut flowers for the Chicago market. They are both at Niles Center and their places join each other. The soil on both places is apparently identical in character, a light black sandy one. Nevertheless Schiller & Mailander have splendid success with Hinz's White, better than with any other white carnation, while Mr. Stielow has very poor success with this sort though he purchased his stock from his neighbors, Messrs. S. & M.

But again, Mr. Stielow grows Garfield to perfection and esteems it highly, while Messrs. S. & M. have been obliged to discard it as unprofitable. Being neighbors they visit each other's places frequently and no difference in the treatment can be detected.

The soil for the benches in which the plants are placed for winter blooming is procured from a short distance by both growers, the localities being about a mile apart. The soil is each case is however, about the same, a virgin light clay, the only difference discernible being that that secured by Messrs. S. & M. is more friable when dry and not so liable to bake. Does the soil make the difference, and does Garfield do best in a somewhat more "sandy" soil than would suit Hinz's White?

Is not a great deal of the difference in value of certain varieties at different places, due to the difference in soil? And can the treatment be so adapted to the soil as to in some measure overcome the effects of this difference?

With Messrs. Schiller & Mailander, Hinz's White is not a cropper. They also grow silver spray and they find it even better than Hinz's from August to Christmas, but after the holidays it does so little that they find it best to throw it out and utilize the bench room otherwise. They like Tidal Wave. The only difficulty they have with it is in getting cuttings to keep up the stock. They get

nothing but flowers. They find Emperor of Morocco the best dark colored sort. Chas. Sumner does well with them and it sells well because it keeps so long in good condition after being cut.



BRIDE'S BOUQUET.

Bride's Bouquet.

We present herewith an illustration of the bouquet carried by the bride at the Willing-Astor wedding in Philadelphia. This was an elegant bunch of flowers including *Cattleya Trianae* alba and orange blossoms intermingled with fronds of *Adiantum Farleyense*. The bunch was tied with frosted white ribbon three inches wide. It was arranged at Thorley's, New York.

Notes from Summit. N. J.

BY WM. FALCONER.

Summit is a fashionable, country settlement, in a hilly district, and an hour's ride from New York. I ran out there for an hour the other day to see Mr. May about some nomenclature business, and just had time to pass hurriedly through his greenhouses. His place is about a mile from the R. R. station, but easy to get to.

His establishment is quite extensive and almost a strictly rose-growing one, and the many greenhouses are connected to roomy sheds and by covered passage ways so that one can pass through all of them without once going out of doors.

The rose-houses are long, wide, roomy hip-rooted structures, with a level bench bed in front, a level bench-bed at back, and a sloping bench-bed in middle. About 3½ inches deep of soil are used upon the benches which are raised well above the ground. The ventilators open at the ridge and to the south instead of being hinged at the ridge as we usually find them, and they are hinged in front on the slope of the roof just where the lap is in the case of ventilators hung from the ridge. Mr. May is emphatic as to the advantages of this way of ventilating greenhouses over the ordinary way; the heated air always goes straight to the top of the house, when the ventilation opens on the side of the roof it does not admit of immediate escape to this heated air, but when the opening occurs at the ridge the heated air escapes at once, and no draughty current of cold air is perceptible in the house and this in a large measure is a preventive of mildew.

Mr. May is a firm believer in hot water for heating greenhouses, and does not use steam. His place is heated with six

hot water tubular boilers and runs of 2-inch pipes. These small sized pipes are quicker and he believes more economical than 4-inch ones.

Although his greenhouses are joined to the sheds in ordinary commercial style they are not joined together in ridge-and-furrow form, but each house is complete in itself and several feet distant from its parallel neighbor. This is in order that the one house shall not shade the other in winter, as they would do more or less were they joined together, and that too at a time when sunshine is of paramount importance in the production of good roses.

His roses, both young stock and blooming plants, were in splendid condition, clean and vigorous. The pathways were carpeted with tobacco stems and the atmosphere was pungent with nicotine vapor, much to the disgust of the aphides which could not enter in and live. Light boxes, a foot or fifteen inches square, were placed here and there conveniently and near the pathways, into which to throw every dropping and decaying leaf that might be picked off or about the plants, and in this way everything was neat and trim as a private conservatory, and nothing was left around to rot and generate and spread fungus diseases. I would be best to myself were I to attempt to tell you anything about his methods of cultivation, my visit was too brief. Suffice it to say that most every good forcing rose in cultivation here finds a congenial home and has got to pay a profit. The Waban was in bloom. Mermet and the Bride were in quantity, so too were Beauty, La France, Albany, Mrs. John Laing, Wootton, Watteville, Cusin and several others. Ma Japane, although its buds are small, is highly esteemed because of its beautiful and uncommon color, and a select coterie in New York demand it in preference to any other rose bud. Papa Gontier in a moderately cool house was unusually brightly colored. Although he does not now grow Her Majesty, he tells me that some of his customers in the south report it as being one of the most satisfactory roses they grow. Here it was slow to bloom and prone to mildew. Mr. May tells me that last year he sent a little less than half a million cut roses to the New York market.

He doesn't grow carnations, but a bench of young plants of Lizzie McGowan I noticed in a hybrid rose house seemed to indicate a step in that direction. He pronounced this variety as being, in his opinion, the very best carnation grown today.

His big magnonette so familiar in the trade occupies a long span-roofed pit and was in fine bearing estate. When well grown it is a very satisfactory crop financially. Like most other cultivated plants however magnonette too has its enemies; its worst foe is the leaf disease which is somewhat similar to the violet disease, and especially common in outdoor magnonette after midsummer. But Dr. Byron D. Halstead has bestowed upon it the penetration of his learned cryptogamic eyes and promised developments. The choicest plants were tied up and staked and preserved uncut for seedling purposes. From them are to be bred the yard-long World's Fair strain that Bob when merry sang about.

I was delighted to find a small greenhouse filled with orchids and containing a splendid display of dendrobiums in bloom. "These belong to Mrs. May," said John, "and I have got nothing to do with them beyond to look at and admire

them." And I am glad of it. I wish every florist's wife had a greenhouse of her own where she could grow something for love and for her own home use.

In a tub in one of the rose houses my old favorite, the deliciously fragrant little Cape of Good Hope pond weed, *Aponogeton distachyon*, was growing and in bloom. It is a true winter blooming plant and a delightful aquatic, and it does not require a large vessel to grow it well in. It is hardy out of doors near the edges of small ponds, providing the water is less than two feet deep on the one hand and the roots are never reached by ice on the other.

Yacht Club Design.

The accompanying diagram shows the form of a design arranged by Florist P. L. Bogart, New York, for a yacht club dinner.

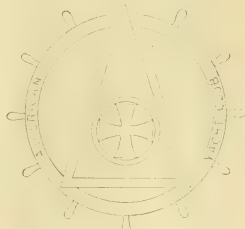
The wheel was made of red carnations, the lettering being in white violets, and the handles were alternately of violets and pansies. The ensign was of red carnations with white border and the Maltese cross of purple violets.

The drawing from which the engraving was made was kindly sent us by Mr. John Young.

Preparing For an Exhibition.

In answer to your correspondent, and an invitation on your part, I will endeavor to give you our little experience in getting up a chrysanthemum show.

Our first start was to appoint a committee to consider the advisability of holding a show and ways and means of raising a sufficient amount of money in the event of the show being a failure.



YACHT CLUB DESIGN

The report of the committee was as follows: "We recommend that the sum of \$150 be offered in prizes and that a guarantee fund of \$200 be subscribed by issuing 40 shares of \$5 each; that the club take 10 shares and the balance be subscribed amongst the members, and the profits or losses, if any, be divided pro-rata." This was considered sufficient. The shares were all taken up and the committee authorized to go on with the show. This they did by arranging a prize list, communicating with, and securing exhibits from several prominent growers of the United States and Canada. A suitable place for holding the exhibition was secured (the City Hall) free of charge. No charge was made for entries. The admission was placed at 25 cents for the afternoon, two for 15 cents, evening 25

cents, and school children were admitted one day at 5 cents. I give you our receipts and expenses: Receipts from all sources \$211.28; expenses, printing, advertising, bill posting and postage, \$67.44; music \$34; decorating hall, vases, tables, labor, etc., \$28.30; prizes awarded \$129.00, making a total of \$268.44, leaving a deficit of \$57.16, thus necessitating an assessment of 30% on the shares.

The show was held four days and three evenings, music each evening. The weather was all that could be desired, but the attendance was anything but encouraging to the committee who had worked day and night to make the show a success, and as an exhibition, it was conceded by those who visited it to be the best flower show ever held in the city.

Now it must be remembered that this was our first attempt, also that our citizens in little London in the bush, have not yet been educated in the love for flowers to a sufficient degree to appreciate our efforts. But we are ambitious and although our first show has not been all that could be desired, we are going to try again and with our experience in the past we hope to be more successful in the future.

WM. GAMMAGE.

London, Ont., Feb. 23.

Cheap Trays for *Gladiolus* Bulbs.

Where a specially arranged apartment of a suitable temperature cannot be provided for the storage of *gladiolus* bulbs during the winter, it is frequently desirable, as well as necessary, that the bulbs should have a proper place assigned them in the general storage cellar, provided the latter is frost-proof.

In a cellar of ordinary dimensions, 10,000 bulbs or even more, can be conveniently stored without any infringement upon the space usually devoted to cellar storage, and which is occupied by the thousand and one things usually found in such a place.

A month ago we completed the cleaning and bulging of the bulbs and their arrangement upon the trays. We have ready and immediate access to all the varieties that we carry in stock and which may possibly be called for during the shipping season.

We have tried this method for a number of years and like it so well that we give it for the benefit of that large class of readers of the *FLORIST* to whom a suggestion that combines economy with convenience is a boon.

In our cellar the joists overhead are 9 inches wide and placed 20 inches apart in the clear. It is the spaces between these joists that we utilize for storage purposes. See Fig. 1.



Fig. 1.

a. Joists. b. 20-inch space. c. Roosting lath.

Here the bulbs have the double advantage of being away from all dampness, and they rest in a temperature a few degrees higher than that found on the floor of the cellar, because the heat of the living rooms above communicates its warmth to the stratum of air immediately beneath the floor.

Roosting laths are nailed 20 inches apart at right angles to the joists for the first row of trays to rest upon as shown in fig. 1. The laths for another row should be placed 4 feet from the first so as to leave sufficient room for the shifting and moving of the trays.

The trays themselves are made of unplastered plastering laths $1\frac{1}{2}$ inches wide and 4 feet long; 9½ laths are required for one tray which can be readily made by any one possessing some skill with saw and hammer. By following the measurements which I shall now give, there will be no waste of material. The remaining two-thirds of the tenth lath go to make a portion of the next tray.

Take two plastering laths free of knots and saw off two pieces for the sides of your tray, 31½ inches long, the two remaining portions will make the ends and should be 15½ inches in length. Now nail the end pieces to and over the sides for the framework of your tray. See Fig. 2.



Fig. 2.

Thin 1-inch wire nails are used for all purposes. A lath will give three pieces for the bottom. Take six laths and saw eighteen pieces 15½ inches in length and nail them on to the bottom allowing the thickness of a lath space between them. Be careful that the two pieces at the ends of the tray are nailed on first so that they will cover both the side and end pieces of your framework on the lower edge and give firmness to it. See Fig. 3.

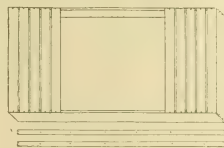


Fig. 3.

Finish by nailing two laths on the bottom lengthwise covering all the ends and the shorter pieces and securing them to their places. Line the tray with paper and it is ready to receive the bulbs. A label bearing the name of the variety is tacked on to each end of the tray. We use the same labels for this purpose that we ship with our bulbs to our customers.

Three trays can be placed one above the other in the space between the joists overhead. We have them systematically arranged so that we can easily find what we wish.

One tier of trays is given to unnamed white and light varieties, another to red, a section of another to yellow, a tier to the named sorts and so on.

Besides *gladiolus* many summer flowering bulbs that require lifting in autumn do well stored in this way. No better place can be found for *Richardia maculata*, *tigridias*, *oxalis*, *Amorpha phallus* *Rivieri*, etc.

Laths taken from razed buildings, the mortar having been scraped off, have been used for this purpose; this seems like carrying economy to extremes. If you wish your trays particularly nice and smooth, run over your material with a jack plane.

The construction of the trays is work for leisure moments during the dull season. After the spring rush some of our readers who hail a helpful suggestion with delight will "look aloft" in their

cellars and avail themselves of the blessings undreamed of overhead.

THOMAS J. OBERLIN.

Sinking Spring, Pa.

ශ්‍රී ලංකා සහ විදේශයන්.

Conducted by CHARLES F. BAKER, Agricultural College P. O., Ithaca Co., Mich.

Send specimens of unidentified insects and diseased plants to him at above address.

Fuller's Rose Beetle in Milwaukee.

Mr. John W. Dunlop, of Milwaukee, writes us in regard to *Aramigus Fulleri*, Horn., (Fuller's Rose Beetle), of which he sends a specimen. He states that it has been introduced into Milwaukee with palms. In regard to its earlier stages he says that the eggs are laid in the bottom of the leaf stalk, where the larva hatches out and feeds on the juices of the plant till full grown. Besides the palm he finds the mature insect feeding on the foliage of *Dracena nobilis*. This insect, which has of late become quite common in eastern greenhouses, is fully described and figured on page 304, number 109, of the *FLORIST*.

An important question for the working florist to answer is this: Does this insect in its larval state live in the roots of roses only, or will it affect those of other plants on whose leaves the imagos subsist? We would like to see something definite in regard to it.

The Color Chart.

ED. AM. FLORIST.—In regard to the suggestion that a color chart be distributed by seedsmen and florists with their catalogues for one would favor the idea. The result aimed at, the education of the public and the uniformity in color description, might also be attained in a measure if leading class journals would adopt the same plan and distribute to their subscribers as a supplement such a chart. Not only among florists but naturalists in general, is the need felt, and the readers of our *West American Scientist* as well as your own readers would appreciate such a work.

The plan to number the colors would not be desirable, and the naming should correspond as nearly as practicable with our only American chart of colors, "Ridgway's Nomenclature." To change this nomenclature I would deem bad unless an international work could be produced as an authority for a century to come.

Another way of securing a chart of colors would be to employ some firm to prepare sheets of a uniform shade, cut up into squares and mounted in the manner of the samples in use among paint dealers. The cost for each tint that could thus be represented, in an edition of 5,000 copies, would approximate \$5, or only \$1,000 for some 200 colors, and any publisher would certainly be well reimbursed for such an outlay. These paint samples are mainly prepared in Chicago I believe and may we not hope that the AMERICAN FLORIST will give us such a book as suggested. This need not interfere with the proposed lithograph for catalogues.

C. R. ORCUTT.

San Diego, Cal.

[The plan suggested in the last paragraph is hardly practicable. It would be extremely difficult to secure the shades wanted in material already available, and the expense of preparing even a portion of it would be very considerable, with the result of accomplishing but little. And the lithograph would cover the whole ground.—Ed.]



JAMES HUTCHISON.

OBITUARY.

JAMES HUTCHISON—The subject of this sketch, who died last month at his home in Oakland, Cal., was born in Glasgow, Scotland, May 24, 1824. Served an apprenticeship in the nursery business with his father and other prominent gardeners round about. At the age of 22 he was appointed head gardener at the Earl of Limerick's estates, and eighteen months afterwards was placed in charge of the "Princess" Gardens, Edinburgh. In 1845 he emigrated to America and followed his vocation for a few years in New York and New Jersey, coming to California in 1852. In 1853 he entered in the nursery business in Alameda. Mr. H. remained in Alameda until the fall of 1861 when he went to Nevada as superintendent of a quartz mill. Here he remained about one year and then took charge of a mine in San Bernardino, southern California, for six months. He then returned to San Francisco and engaged in the fruit business. Six months later he took charge of the Mountain View Cemetery in the suburbs of Oakland. Residing there for about one year, in 1864 he started business in Oakland, where he has remained ever since. No Californian in this branch of horticulture has been more widely or favorably known throughout the U. S. than Mr. Hutchison, his business having been a large and rapidly increasing one from the start and all his commercial transactions carefully entered into and conscientiously and satisfactorily carried out. In the latter years of his life he added also a seed department to his florist's business, mainly for his local trade. He had a very large circle of acquaintances throughout the United States and Great Britain, having made during the last five years two trips across the continent and ocean and an extended visit in Scotland, the land of his birth. He was one of the original stockholders in the well known California Nursery Co.,

In 1877 he purchased the lot where his establishment was located, at the corner of 14th and Washington streets, Oakland. Thus he disposed of recently for \$72,500. Mr. Hutchison's death will leave a gap in the florist's trade on the coast.

News Notes.

SARATOGA SPRINGS, N. Y.—Chas. Ludwig is building two new greenhouses, one 20x100 and the other 6x18. He expects to have them ready for spring bedding plants.

ST. LOUIS.—Jno. M. Hudson has sold his wholesale cut flower commission business to A. Brandenburg & Co. He will confine his attention hereafter to the growing of cut flowers.

DOWNER'S GROVE, ILL.—E. J. Miller has sold out to E. H. Prince. Mr. Miller was compelled to retire from active work by poor health. Mr. Prince will continue the business at the old stand.

CHELSEA, MASS.—Geo. W. Marshall is building two new greenhouses each 106x18. He expects to have them in running order by March 15. He has built five houses since the middle of last September.

BALTIMORE.—At the meeting of the Florists' Club, Feb. 23, a paper on "Cost of growing roses" was read by Mr. E. A. Seidewitz. President McRoberts appointed a committee to prepare a statement of the cost of growing roses for publication.

PITTSBURGH.—Arrangements for the chrysanthemum show to be given next fall by the newly organized florists' club are being rapidly perfected. Committees are now at work arranging details. The Central Rink has been secured and the exhibition will be held there.

PORT HURON, MICH.—Mat Ullenbruch surprised his friends here recently by an-

nouncing the arrival of a bouncing baby boy, an only son and heir. A large number of his friends in return surprised him pleasantly by presenting him with a handsome gold headed cane.

BALTIMORE.—The spring show of the Gardeners' Club of Baltimore will be held at the Concert Hall, Academy of Music, Wednesday and Thursday, April 22 and 23. Copies of the premium list may be had from the secretary of the club, Mr. Henry Bauer, 1875 N. Gay street.

KIRKWOOD, MO.—Luther Armstrong, one of the original incorporators of the Florists' Hail Association, lost about 600 square feet of glass by hail February 24. Of course he was insured and will receive payment for his loss as soon as proof has been passed upon by the officers of the association.

BUFFALO.—Mr. Wm. Scott says: "We are looking for a big trade at Easter and are pretty well prepared. Business was flat around Christmas and early January, but lately it has been very good. Plants such as azaleas, lilies, cytisuses, etc., never sold so well with me. I expected the bottom had fallen out of the tulip trade, but the demand for them is good and a little better than ever."

SAN FRANCISCO.—At the last monthly meeting of the California State Floral Society essays were read on "Edging plants," "Singing garden birds" and "Climbing plants other than roses." In the premium list adopted for the exhibition to be held May 6 to 8, prizes are offered for roses, camellias, carnations, geraniums, sweet peas, clematis, azaleas, begonias, coleus, ferns, California wild flowers and displays of flowering and decorative plants. It is promised that the land for prizes for the fall show will be larger than for any former one, the result will undoubtedly be a much larger and better display than heretofore. The subjects for next meeting are "Propagation of rhododendrons" and "Annals of long blooming season." About \$600 worth of orchids are now on their way from South America to be added to the collection at Golden Gate Park. A meeting of florists, nurserymen and seedsmen of this city, Oakland and Alameda, was held recently for the purpose of organizing a Florists' Club similar to those existing in other large cities. A temporary organization was effected, and another meeting will be held for the purpose of perfecting the organization.

Minneapolis.

The Society of Minnesota Florists held their semi-annual meeting at Minneapolis March 4. The attendance was fairly good, although not as good as might have been expected considering the good papers that were delivered on different subjects.

A nice display of flowers was made and premiums were given to E. Nagel for basket of cut flowers and to Chas. Hanson for cut roses, his roses being unusually fine. Mr. J. C. Vaughan of Chicago, exhibited some flowers of the new Wabou rose and Mme Crozy canna, also the new coleus Beckwith's Gem, but unfortunately, having been frozen during transit, they presented a sorry appearance.

The society decided to hold another chrysanthemum show next fall either in St. Paul or Minneapolis, to be decided later.

GUST MÄLMQVIST.

NEXT WEEK comes our double Easter number.

The Color Chart.

We have been extremely interested in your articles on color and hope you will not let the idea of publishing a graduated sheet of colors fall to the ground, as it is a thing that the trade has been wanting for years.

J. R. PIERSON & SONS.

Chillwell, Notts, England.

LAST CALL for advs. for the double Easter number. Copy must reach us not later than Monday the 16th to be in time.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a first class florist as foreman in commercial place. German, 12 years experience, best of references. Address: J. K. care American Florist.

SITUATION WANTED—By a young man of 19, German, to learn the florist trade in all its branches, have had some experience. Address: C. STELZLI, Bellefontaine, Ohio.

SITUATION WANTED—By a gardener, single, N. sober, reliable, to grow plants for retail market. None but good parties need apply. State salary. J. J. care American Florist, Chicago.

SITUATION WANTED—By March 15 or April 15 as gardeners assistant in large private place in the east; good references. 7 years experience. Adl. Daniel. Address: West, care American Florist.

SITUATION WANTED—By a German gardener S and rosette; 14 years experience in all branches of the trade; private place preferred. Address: EUREKA, care American Florist.

SITUATION WANTED—By a first class florist; 35 years' experience; either as foreman, manager or position in store. 11 decorators' make up. Good references. Address: W. C. care Jordan Floral Co., St. Louis, Mo.

SITUATION WANTED—Private or commercial place, by single man, American, 22 years in the business; can furnish best of references as to character and ability; vicinity of Boston preferred. FRED MITCHELL, 11 Bryant St., Franklin, Mass.

SITUATION WANTED—As gardener in private place, understands the growing of all kinds of fruits and vegetables; best of references, 14 years experience. Apply to: Gardener Park Rose Co., 165 W. Madison St., Chicago.

SITUATION WANTED—As florist, to take charge of florist business, 10 years practical experience in all branches of horticulture, rose growing, bulb forcing and propagating all kinds of plants. Address: THOS. MCKENZIE, 314 Prospect St., Cleveland, O.

SITUATION WANTED—By a German florist, 29 years old and married, well up in forcing of roses, carnations, stocks and bulbs, and general plant growing. 15 years experience, best of reference. Mention salary. Address: FLORES, care of Louis Ritter, 216 East 11th St., New York City.

SITUATION WANTED—By first class gardener well up in roses, carnations, bulbs, etc. greenhouse and stove plants, hothouse grapes and other fruit under glass. No. 10, retired bulbs, married, two children, private place preferred. Address: R. T. Lock Box 35, Riverside, Cook County, Ill.

SITUATION WANTED—By April 1st, young man S. understands the growing of roses, carnations, bedding plants, also good arbor, vegetable and mushroom grower; capable of taking charge of men would like assistant manager in private place or cemetery; strictly temperate honest and reliable; good references; state salary. Address: JAMES WADE, Maywood, N. J.

WANTED—Young man used to greenhouse work, 218 and board, bring references. Address: Lock B x 35, Riverside, Cook County, Ill.

WANTED—100 feet of second hand 4-inch hot water pipe. Address stating price. H. GUZMAN, Lopez P. O., Cuba.

WANTED—Single man for greenhouse, vegetables and general work on private place; sober with good references. H. WISE, Poughkeepsie, Conn.

WANTED—A position as gardener in some private place; have years experience and can furnish best of references. L. B. care American Florist.

WANTED—Competent commercial florist; good place to the right man; floral wages high. Address with terms and references. E. W. WILSON, Atlanta, Ga.

WANTED—Position as head gardener, had 30 years experience in stove and greenhouse plants, good references. Address: GARDENK, care American Florist, Chicago.

WANTED—Industrious young florist competent to grow roses and general work in greenhouse and place. Address with terms and references. J. E. JACKSON, Gainesville, Ga.

WANTED—A first class rose grower, married man, on a large commercial place, 10,000 feet of glass, near New York, best of wages for a competent man. Address: C. P. O. box 399, New York.

WANTED—Information of Anthony Boland, florist, one knowing his address will confer a great favor by writing to: JAMES MCMAHON, Brightonwood, D. C.

WANTED—A single young man as assistant in a commercial place, with four to six years experience, growing roses, cut flowers and plants for market. State wages expected and full particulars. GEO. B. LUCAS, Lansingburgh, N. Y.

WANTED—Young man for nursery work. Must thoroughly understand the propagation of all kinds of shrubbery, ornamental trees, etc. State wages expected and references. B. A. ELLIOTT CO., Pittsburg, Pa.

WANTED—Violet grower, must be a married man with small family for a commercial place; will be expected to care for violets only, and must be a worker. Address with full particulars and wages expected. E. KOFFMAN, Walden, Orange Co., N. Y.

WANTED—A first class man to propagate ornamental and fruit trees in open nursery, by both budding and grafting. Only a party able to do so in such work, thoroughly, with best directions, need apply. Steady job. THOMAS, Cambridge, Mass.

WANTED—A married man with a small family, as gardener for commercial establishment where small, ferns and all kinds of plants are a specialty. I want a worker, no others need apply for the position, state experience and full particulars with wages expected. E. KOFFMAN, Walden, Orange Co., N. Y.

WANTED—A skillful propagator of small fruits: One who is sober, industrious and will be here by April 1st; single man preferred; wages \$50 per month and board, but no room to be expected. English desirable. Address with references. COLD SPRING, SEED FARM, Hick Horn City, Wyo.

FOR SALE—Florist's store in a large city established seven years in good location, doing good business, reasons for selling explained on application. Address: M. G. R. American Florist.

FOR SALE—One of the best equipped florist's establishments in the west in a large city, well situated for wholesale and retail business. Over 4,000 square feet of glass. Also valuable stock and fixtures with the business. One of the best openings for a business man. Not wanting to sell for lack of buyers, but for want of time to do so. If you wish, only parties of means need apply. Speak quick if you want rare opportunities. W. X. care American Florist, Chicago.

SPECIALS STOCK.

Primula Obconica, 2 1/2-inch.....	Per 100 \$4.00
" " 3-inch.....	8.00
Coleus Golden Bedder and Setting Sun, 2-inch.....	3.00
Vinca Rosea, very fine, 2 1/2-inch.....	3.00
Vinca Alba, very fine, 2 1/2-inch.....	3.00
Echeveria Secunda Glauca, strong plants.....	3.00
Echeveria Secunda Glauca, very strong, 3-inch.....	5.00
Dahlias, field grown roots.....	5.00
Amaryllis Formosissima, very choice stock.....	8.00

Address: MICHEL PLANT AND SEED CO., St. Louis, Mo.

FLORAL DESIGNS.

The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted. Speak quick. Address (with \$3.50 for the book):

J. HORACE McFARLAND, Box 655, HARRISBURG, PA.

AT A BARGAIN, BY MAIL—Smaller size, 12 Dracenas Australis, \$1.00 per doz. 60c. per doz. for 100. I have 100 of these. Strong cuttings of 30 new geraniums of my own raising, not yet out, for 50 cents. Plants of a new Geranium, 25 cents each; set 50c. French China bulbs and seed. New Giant Perfection stock, per trade pkt. 25c. Aster Pompon, per trade pkt. 25c. Cosmos, white or mixed, per doz. 25c. Mignonette Michet, per doz. 50c. Chrysanthemum seed, from choice strains, per pkt. 25 and 40 cents.

S. LENTON, Pitt City, Cal.

F. A. RIECHERS & SONNE, Act Ges, Import and Export Nurseries,

HAMBURG, GERMANY.

Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.

227 Wholesale Catalogue on application.

OF THE GLOBE!

TRUE BERLIN PIPS. 3 yrs old, dormant, warranted in perfectly sound condition.

Price per original case of 2,500 pips, \$24; per 10,000, \$90; per 1,000, \$10; per 100, \$1.50.

Order now, as stock is limited.

TERMS CASH.

A full line of Summer flowering Bulbs, Seeds, Plants and Florists' Supplies, furnished at lowest market prices.

Catalogues free to applicants. Address,

J. A. DE VEER, 18 BURLING SLIP, NEW YORK.

DAISY SNOWFLAKE

Daisy Snowflake—This Daisy, if treated like Violets, will give splendid returns for all labor bestowed upon it. It is the best of its kind and does not supply the demand for cut flowers, as it keeps fresh from 7 to 10 days after being cut, and then looks as fresh as other white flowers just cut. The flowers are borne on stout long stems, fine white and beautiful yellow centers. It is a very early bloomer. Price, a great acquisition to florists.

Price, \$1 per doz. free by mail; \$5 per 100 by express. See WHAT F. J. KELLER SAYS ABOUT THIS DAISY:

ROCHESTER, Jan. 2th. Daisy Snowflake is quite a useful flower both for floral designs and for cut flowers, and when tied up in small bunches they sell very rapidly with us for funeral designs. We use a great many in place of carnations, as it is cheaper and covers almost the same space, and keeps fresh considerably longer. Be sure and send me some, as I cannot get them fast enough for my customers. They say it is the best cut flower I buy because it keeps fresh 2 to 3 weeks. I feel I can't say too much in favor of this useful flower. Yours truly, F. J. KELLER.

FRED SCHNEIDER, Wholesale Florist, WYOMING CO., ATTICA, NEW YORK.

ORCHIDS.

Established and Fresh Imported plants, mostly useful for Cut Flowers, at very low prices.

Write for our Price List.

FREDERICK MAU, SOUTH ORANGE, N. J.

BEGONIAS—A SPECIALTY.

LAING'S BEGONIA SEED—Awarded Four Gold Medals and Gold Cup. Unequaled quality. Saved from prize plants. Choicest mixed single double varieties, 50c. per doz. 50c. and 10c. per packet. Collections, 12 named single varieties, separate, 5c. 1d.; 7 named varieties, 3c. The cheapest and most procurable. Trade only free. Descriptive catalogue of Begonias, Plants, etc., mailed free on application.

JOHN LAING & SON, Seedsmen and Begonia Growers, FOREST HILL, LONDON, ENGLAND.

TUBEROUS BEGONIAS—Grown from finest strains of seed in white, pink, rose, yellow, light scarlet, deep scarlet, crimson, light blue, dark blue, purple, etc. (Most recommended for beds, coming very true), per 100 \$1.00, mixed 75c. Double white, pink, scarlet, crimson, \$1.50 per 100; mixed 1.25 per 100. They will not all come double, but single and semi-double ones often come double.

BRAUER & RICHTER, McCornellsville, O.

CATALOGUES.*

I MAKE 'EM, WITH CUTS AND "KNOW HOW."

J. Horace McFarland,

HARRISBURG, PA.

Asclepias Tuberosa, Lobelia Cardinals, Platycodon, white Lily of the Valley clumps, \$1.00 per 100. Rose a few feet. Lily Valley, pins \$8 per 100. Kamper's Japan and German Iris, Golden Lemon, and double Brown and white Poppies \$10 per 100. Larkspur, jet everlasting Pans. Peonias, and many others. Virginia Creeper, Blackberry, Honeyuckle, Vine—20,000 line, hardy decorative plants. Easy Low Catalogue to my address, B. M. WATSON, Old Colony Nurseries, Plymouth, Mass.

VIOLETS.

M. LOUISE AND SWANEY WHITE, \$2.50 per 100. Write for prices on any miscellaneous stock you need.

McCrea & Cole, Battle Creek, Mich.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,
NEW ROCHELLE, N. Y.

New and
Rare Plants

ORCHIDS

ORCHIDS

PALMS,

Hardy
Plants.

FERNS.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

CHRYSA nth EMUMS.

—All Prize Takers of 1890.—

I have over 250 varieties of the best best Chrysanthemums exhibited last year, and am now prepared to furnish plants at moderate prices. Will send 100 strong plants, one hundred different kinds, all good ones, my selection, for \$4.00 or will send 200, each different, and containing all the most valuable and popular kinds of the past season, for \$8.00.

All Plants Guaranteed to be in First-Class Condition. Send for descriptive circular giving full descriptions and prices to

O. P. BASSETT,
HINSDALE, ILLINOIS.

CHRYSA nth EMUMS.

Waterer's Novelties for 1891.

ELDORADO, MARY WATERER,
KATE RAMBO, M. P. MILLS,
MRS. H. A. PENNOCK (yellow violet
rose), MRS. JOHN WESTCOTT.

Also a large stock of MISS MINNIE
WANAMAKER, the best white
in cultivation.

Price list on application to

H. WATERER,

109 South 7th Street, PHILADELPHIA, PA.

GOLDEN BEAUTY TO THE FRONT.

It was never exhibited, but has stood the more practical test, for no early yellow Chrysanthemum gave better satisfaction to seller and buyer than the above. Such was our experience, and also of all who handled it. What they say.

"We handled no early yellow that sold better or gave better satisfaction to the buyer."—James Cartledge, of Pennock, Bro., 311 Chestnut Street, Philadelphia, Pa.

"You can get nothing better than that."—Wm. Voght, Jr., 5th and Cooper Sts., Camden, N. J.

It was described in these columns last year, and we leave it to tell its own story. Suffice it to say that our claims for it have been more than sustained, and that it combines all the essentials of a first-class market variety for potting and cutting. Ready in quantity March, April and May. 12 for \$1.00 for \$2. You can not afford to get left on this offer. Orders booked now are filled in rotation as far as plants are ready, by express or free by mail.

THE NEW DOUBLE WHITE DAISY SNOWFLAKE. One of the best things out for winter flowers. Will grow and bloom all winter in a cold frame, and will covered cold nights will need no better quarters. Given splendid return. It does not seed, and can only be increased by division. Flowers pure white, very double, and beautifully quilted. As large as a do. piece. Ready now. 12 for \$1.00 for \$5. Sample plant and bloom free by mail on receipt of 10 cents.

See other special offers in another column.

J. C. GIBSON, Woodbury, N. J.

CHRYSA nth EMUMS.

HOLLIS' SEEDLINGS OF 1890.

Nine distinct and choice varieties. Prospective prize winners of 1891 need them. Best quality and lowest price.

35 to 50 cents each; \$3.00 for the set. Send for descriptive list.

GEORGE HOLLIS, South Weymouth, Mass.

ROOTED CUTTINGS VERBENAS.

Strong and healthy. Nine Mammoth, or 16 varieties by mail \$1.00 per 100.

BRAUER & RICHTER, McConellsville, O.

200,000 VERBENAS.

color and habit. We are able to root 30,000 to 50,000 per week and can fill all orders in a reasonable time.

Plants, per 100, \$2.50; per 1000, \$20.00; 5,000, \$90.00.
Rooted Cuttings, per 100, \$1.00; per 1000, \$8.00; 5,000, \$30.00.
THE FOLLOWING UNSOLICITED TESTIMONIALS WERE RECEIVED IN FIRST MAIL TO-DAY, FEB. 20th:
BUFFALO, N. Y., Feb. 18th.—Received verbenas. They were very satisfactory. Thanks for good ones.
CANTON, O., Feb. 18th.—Received verbenas in good condition except Crystal (red). All the others are splendid.
ALEXANDRIA, VA., Feb. 19th.—The plants arrived yesterday in good condition. Thanks to you for your promptness and liberality.

SEND FOR PRICE LIST.

We have one of the finest and largest stocks of Verbenas in the country, entirely free of

RUST AND MILDEW.

Microscopic examination shows no trace of the verberna mite.

Our collection of sixty varieties contains the

Finest Old and New Varieties

fully as healthy as seedlings, and beyond comparison in

per 100, \$2.50; per 1000, \$20.00; 5,000, \$90.00.

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per 100, \$1.00; per 1000, \$8.00; 5,000, \$30.00.

per 100, \$2.50; per 1000, \$20.00; 5,000, \$90.00.

per 100, \$1.00; per 1000, \$8.00; 5,000, \$30.00.

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per 100, \$1.00; per 1000, \$8.00; 5,000, \$30.00.

per 100, \$2.50; per 1000, \$20.00; 5,000, \$90.00.

VERBENAS

ROOTED CUTTINGS. Cash with order. \$1.00 per hundred; \$8.00 per thousand.

H. W. BUCKBEE, Rockford, Ill.

VERBENAS.

—STRONG AND HEALTHY.—

Ready for immediate shipping. Per 100 \$10.00
General Collection stock plants, named \$10.00 \$25.00
XX Mammoth Set, " " 4.00 30.00
" " " " 1.25 10.00
General Collection " " 1.25 10.00
Coleus Golden Verscheffelt, Golden
Bedder, Hero, Verscheffelt and 25
other sorts, " " 1.00 8.00
Heliotrope, Rooted Cuttings, named, " " 1.25 10.00
Gazania " " 1.25 10.00
Calceolarias " " 1.50 12.00
Asterium " " 1.50 10.00
Feverfew, The Gem, Rooted Cuttings, 2.00 10.00
Adonia Splendens, " " 1.25 10.00
Begonias tubra, Metallica, etc " " 2.00 10.00
Chrysanthemum varieties and price on
Application.
Anemone, Vetch, strong plants, 8.00 75.00
Trade List of Florists Sent Free by Mail.

WOOD BROTHERS,

(Successors to I. C. WOOD & BRO.,) FISHKILL, N. Y.

DON'T FAIL to secure a few plants of that wonderful VERBENA, CLIMAXER. Have never seen anything better, all points considered (see ad. in January No. 1). Ready now, 6 for 6c.; 12 for 1c.; 25 for 1c. 25. Heavy stock, perfectly healthy. By the 100 and 1,000 in March and April. See other special offers in another column.

J. C. GIBSON, Woodbury, N. J.

E. G. HILL & CO.,

RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST SAMPLES.

ROSES, CARNATIONS, BEGONIAS, CHRYSA nth EMUMS, ETC., and the very best imported.

FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.

Chrysanthemums.

Catalogue with description of my two new sets now ready. Send on application.

The following varieties are offered at \$1.00 per 100 for cash.

KIOTO, L. B. BIRD, H. CANNELL, GOLD, PURITAN, GLORIOUS, CULLINGFORD, GRANDIFLORUM, M. E. NICHOLS, L. CANNING.
E. G. Hill, \$10.00 per 100
W. H. Lincoln, 6.00 per 100
Avalanche, 5.00 per 100
Louis Roehmer, 5.00 per doz.
H. E. Widener, 1.50 per doz.

JOHN THORPE

PEARL RIVER, NEW YORK.

PALMS and DRACAENAS.

Largest stock in the West. Over fifty varieties of PALMS at 5 cts. to \$10.00 each.

CYCAS REVOLUTA, 50 cts. to \$15.00 each.

DRACAENA INDIVISA, AUSTRALIS and TER-

MINALS, 5 cts. to 15 cts. each.

CACTUS, ALOES, AGAVES and YUCCAS.

See for price list.

W. J. HESSER, Plattsburgh, Neb.

VERBENAS.

PERFECTLY FREE FROM RUST.

20 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$25.
Rooted cuttings of same, 100 \$1; 1000 \$9.
Fine stock Heliotrope, 2 1/2-inch, \$3 per 100.
Primroses, double, per 100 \$2.00.
" single, per 100 \$3.00.
Geraniums—latest Novelties.
Latania borbonica, 5-inch \$4.00, 4-inch \$3.00 per dozen.
Miscellaneous stock of all kinds.

ROSES.

Mad. Hoste, La France \$5.00 per 100.
Duchess of Albany \$7.00 per 100.
Gontiers, Perles, Mermels, Non Silences, Brides, Niphetos and 30 varieties of monthly roses, \$1.00 per 100 or \$15 per 1000.
H. P.'s purchaser's choice, \$6.00 per 100 or \$50.00 per 1000.
H. P.'s, our choice, \$5 per 100 or \$10 per 1000.

GEO. W. MILLER,

1748 N. Halsied St. CHICAGO.

VERBENAS.

Stock Plants, 3-inch pots, Loaded with Cuttings.

\$3 PER 100; \$20 PER 1000.

Address J. G. BURROW,
FISHKILL, N. Y.

VERBENAS.

Rooted Cuttings, strong and healthy, in splendid colors mixed, mostly scarlet with white eye and different shades of red and pink with small proportion whites and blues. 25 per 1000, \$5.50 per 500.

A. MEYER,

3218 S. Jefferson Ave., St. Louis, Mo.

SURPLUS VERBENAS.

SPEAK QUICK! THIS OFFER

FOR TWO WEEKS ONLY.

2 1/2 inch pots. - \$2 per 100; \$15 per 1000

Rooted Cuttings, 75c. per 100; \$7 per 1000

Address J. G. BURROW,

FISHKILL N. Y.

CAPE GOD PINK POND LILY.

For price list, Plants and Cut Flowers,

address the original cultivators,

Chipman Bros.,

SANDWICH, (Cape Cod,) MASS.

Washington.

The Florists' Club of Washington held its annual election March 3, resulting in the re-election of Robt. Bowdler as president; Philip Gages, vice-president; Adolphus Gude, treasurer and Eugene Cadmus, corresponding secretary. John Clarke was elected recording secretary in place of his brother William who declined.

After the election the club and the guests to the number of thirty sat down to a dinner. The table was decorated very prettily without any pretension to be an example of the way it is done in Washington. However one plaque of American Beauties would have held its own with any short stemmed exhibit of them. The occasion seemed to be thoroughly enjoyed by all present; songs and speech making enlivened the proceedings, Mr. Oliver making quite a hit with a couple of Scotch ballads. Among the guests were Mr. Robt. Halliday of Baltimore and Mrs. Thomas Field of Field Bros., Washington. There seemed to be no lack of enthusiasm for our coming chrysanthemum show next fall and it was the topic of several speeches. Unity and social occasions like this are rapidly bringing the florists of Washington to know and appreciate each other far better than in former days.

MAIL YOUR adv. at once for our double Easter number to be issued next week. It will be the handsomest number of the FLORIST ever issued and will go to every name in the American trade.

NEARLY a ton and a half (2,970 lbs.) of paper will be required for our special Easter number.

ROSES.

Roses bought now for \$40 per 1000, or \$35 if our selection. Will net the purchaser over 100 per cent. by Spring.

100,000 in 50 Leading Sorts READY NOW.

— ALSO THE CREAM OF —

Chrysanthemums and Bedding Plants.

Largest and most select stock in the South-West. Over THREE ACRES UNDER GLASS.

Send in your lists to be priced.

Wholesale and Descriptive Catalogue of pages free to all.

Address **NANZ & NEUNER,**
LOUISVILLE, KY

**I Will Pay
\$10 A THOUSAND**

For Rose Plants thrown out from Benches. Write me stating varieties, quantity of each, and when ready.

W. RAYMOND

Raymond Nurseries,

Box 5275. BOSTON, MASS.

DRACÆA INDIVISA.

From 2-inch pots, per 100 \$3; per 1000 \$25. From 3½-in. pots, per 100 \$5; per 1000 \$35. From boxes, once transplanted, per 100 \$4; per 1000 \$35.

GLONINIA BULBS, Strong.

All good colors (mixed), per 100 \$10; per 1000 \$90.

GLONINIA SEEDLINGS.

From strictly first class *Erebia grandiflora* type—

all tiggered and spotted, per 100 \$5; per 1000 \$45

Ready for delivery April 1st.

JOHN BROS.,

Clark's Point, New Bedford, Mass.

Mention American Florist.

IMPORTANT TO ALL FLORISTS.

Our new trade list of 50 pages and our descriptive catalogue of 100 pages is now being mailed to you. Should you not receive a copy within a few days, notify us and we will send you one.

Without any desire to brag we assure you we have the largest and best collection of Chrysanthemums in the country.

All stock is bloomed before propagated from. Our list contains over 600 varieties. We also publish a list of synonyms in our catalog.

Pamphlet of "Summer Flowering Bulbs" 20 pages mailed on application. Price \$3 per 100. Our name does not appear in the pamphlet, therefore it is highly valuable for those having a counter trade. Our list of dormant bulbs is the largest and finest of any in the country.

We have so much of interest to florists and others in our catalog that we cannot begin to mention any.

Blanche Ferry Sweet Pea, proved of great value last year as a cut flower. We have a large stock of fresh seed at 10 cents per oz.; \$1.00 per lb.

You will bear in mind we told you last year that Chrysanthemum V. H. Hallock was a good one. You will hear from this later on. We also recommended Charity and White Cap on our last year's set as being particularly valuable for florists' use. Prices in quantity on application.

V. H. HALLOCK & SON,
QUEENS, N. Y.

ORDER NOW FOR SPRING TRADE

Hardy Shrubs for Eastern Gardens.

JAPAN MAPLES in 20 choice sorts.

Japan Magnolias; Stellata, Conspicua, Parviflora, etc.

Tree & Herbaceous Pæonias, Iris Kämpferi in newest magnificent coloring.

Hardy Conifers, New sports of Retinosporas.

MINIATURE JAPAN CONIFERS.

Cycas Revoluta Stems greatly reduced.

Araucarias, Tree Ferns, Bamboos.

We furnish RELIABLE goods at corresponding rates.

Send for Catalogue to

H. H. BERGER & CO.,
P. O. Box 1501, SAN FRANCISCO, CAL.



ROSES.

WABAN, SOUV. DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other NEW and Standard varieties of Teas; also all the best varieties both new and old of the Hybrid Remontants including the variety which

MR. JULIUS ROEHR

has forced so successfully for the past three years, and which has proven itself by far the best variety of this class for very early forcing yet introduced; also all the best varieties of

HYBRID TEAS, CHINAS, AND BOURBONS,

For Forcing, Bedding, etc., etc. All of which I now have an EXTRA fine stock at prices as low as any one can produce such stock for.

MY NEW TRADE LIST in now ready and will be mailed to all applicants.

JOHN N. MAY, Summit, N. J.

**The Pink Ostrich Plume
CHRYSANTHEMUM,**

LOUIS BOEHMER

Fine Plants, \$5.00 Per Dozen. Cash.

H. W. BUCKBEE,

ROCKFORD, ILL.

DOUBLE WHITE PRIMROSE PLANTS.

Pine, large, healthy plants, from 3, 4 and 5-in. pots, at \$10, \$15 and \$20 per 100.

Dracæa indivisa, from 2, 3 and 4-inch pots, at \$4, \$5 and \$12 per 100, strong stock

Palm Brakes Filamentosa, 4-in. pots, \$12 per 100. Also Single Primrose, Calceolaria rufica, Callas, all sizes; Solais, Echeverias, A. larantheras, etc.

Also the new and leading varieties of Coleus, Geraniums, Chrysanthemums, Koses, Violets and other stock. Write for price list.

HENRY SMITH, 130 Monroe St., Grand Rapids, Mich.

CUT SMILAX.

I make a specialty of Smilax, and am prepared to fill orders promptly. Price, 20 cents per string (100 May let. Quality A. I. **JOSEPH E. BONSALE,** Telephone No. 35. 308 Garfield Ave., Salem, Ohio.

H. P. ROSES, strong, outdoor grown, Gen'l Jacq., Washington, Coquette, Mme. Nussan, M. C. Wind, La Reine, Black Prince, etc. \$1.50 a doz.; \$12 a 100.

LEB. ATIS, large, double, fine var., \$25 and \$35 per 100; \$3.00 and \$4.00 per dozen.

HYACINTHS, 3½-in. pots, named sorts, \$1 per doz.; 7 per 100. In good condition for shipping.

CYCLOPS giganteum & Persicum, best strains, very fine stock in bud and bloom, \$1 doz.; \$8 a 100; \$1. P. ROSES, summer grown, fine young plants in best sorts, \$5.00 per 100; \$4.00 per 1000.

F. A. BAKER, Bloomington, Ill.

ADIANTUM CUNEATUM.

Once transplanted, ready for small pots, per 1000, \$10. Well established in small 2½-inch pots, per 100, \$3. **JOSEPH KIFT, West Chester, Pa.**

THE NEW ROSE WABAN.

This very valuable rose originated at the Waban Conservatories of E. M. Wood & Co., Natick, Mass. It is a SPORT from Catherine Mermet and identical with that variety in every characteristic, excepting color, which is a rich, deep, BRIGHT PINK; it sustains the same relation to its parent as Duchess of Albany does to La France. The only objection to C. Mermet is its frequently pale, insipid color in cloudy weather; experience has shown that the WABAN retains its deep rich color in all kinds of weather; it will, without doubt, prove to be as valuable as THE BRIDE which is also a sport from the same magnificent variety.

IT HAS ALREADY RECEIVED THE SILVER MEDAL

of the Massachusetts Horticultural Society, of the Pennsylvania Horticultural Society, and **Certificate of Merit** from each of the Societies in this country and Canada where it has been shown.

ALL OF THE STOCK READY FOR DISTRIBUTION APRIL 15th IS SOLD.

On and after this date (March 12th) orders received for a limited number of good, healthy plants, ready for delivery May 15th, 1891. **ORDER EARLY.**

ORDERS BOOKED NOW, WILL BE FILLED IN STRICT ROTATION.

From 2½-inch pots.

1 Plant, \$ 1.00	250 Plants, \$100.00
12 Plants, 9.00	500 " 175.00
50 " 30.00	1000 " 300.00
100 " 50.00	

From 4-inch pots.

1 Plant, \$ 1.50	50 Plants, \$ 40.00
12 Plants, 15.00	100 " 75.00
25 " 25.00	

The following Agents have been appointed to sell the Rose in the respective territories given below:

W. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th & Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

MY SPECIALTIES ARE THE ROSES

MME. CUSIN

AND

Mme. de Watteville,
for which the

SUNNYWOODS GREENHOUSES
have become famous.

I will have a limited number of plants of the finest stock grown of the above varieties; all strong plants.

FRANK L. MOORE, Chatham, N. J.

Mention American Florist.

ROSES

Good, well established Plants from 2-in. pots, \$35 per 1000, in equal number from following sorts:

Aline Sisley, Coquette de Lyon, Cath. Mermet, Clement Nabonne, Duchess de Brabant, Etolite de Lyon, Euphrosyne, Perles, Gerard Des Boies, Henri Meynadier, Mme. C. Ferreau, Mar. Niel, Hermosa, Mme. Jos. Schwartz, Marie VanHoutte, Marie Guillot, Fr. Krueger, Mme. Car. Custer, Mme. Lambert, Malmaison, Mme. Camille, Mme. Bravy, Sombreuil, Ophelia, Susanah Blanchet, Queen's Scapier, Vicomtesse de Vanier, Princess Hohenzollern, Washington, Salfaterre, Mignonne.

We will allow purchaser to strike out five sorts not wanted.

Hybrid Perpetual Roses, our selection, from 2-inch pots, \$50.00 per 1000.

For everything in the Florists line

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

PLANTS for CUT FLOWER GROWING

Roses, Carnations,

Chrysanthemums, Ferns.

I grow all the best varieties for this purpose. Wholesale list now ready. Send for it before buying your stock for planting.

M. A. HUNT, Terre Haute, Ind.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices
Now Ready.

Mention American Florist.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

SAN FRANCISCO, CAL.

Mention American Florist.

IMPORTED H. P. ROSES,

Worked low on the Manette Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 3 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Again;
 Inch, \$1.40; Column, \$14.00.
 Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
 26 times, 20 per cent; 52 times, 35 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen and dealers in flowers pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.
 Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE CARNATION CONTROVERSY.

The discussion upon the merits of Lamborn and Hinze's White should not degenerate into a personal controversy, as then the matter ceases to be of general interest and we should be obliged to terminate it so far as our columns are concerned. Much of the data which has been brought out during the discussion is of considerable value and so long as an occasional ray of new light is thrown on the situation we are content, but we must beg our correspondents to remember that pure personalities are not discussion nor argument. Honest criticism we want but sarcastic flings that are designed merely to irritate and accomplish nothing else, we positively will not admit to our columns. A number of communications of this character that reached us went direct to the wastebasket and any more received will take the same course.

The real point at issue is the comparative value of Hinze's White and Lamborn as producers of cut flowers.

We hope that the competitive exhibition may take place and the best flower carry off the honors. But that will not settle the question by any means. Lamborn has undoubtedly done better than Hinze's with Mr. Chitty, but it is equally certain that Hinze's has done better than Lamborn with other growers. In some sections Hinze's is a cropper and in others it is a continuous bloomer. The causes of these differences are what we should now seek. Are they in the treatment, or in the soil and other conditions? We would suggest that in any further discussion on the comparative value of these or any other sorts our correspondents give a description of the soil and also of the treatment if it varies any from that usually followed. Some very interesting facts might be brought to light in this way—facts that would enable us to work more intelligently and effectively in the future.

WE ARE GLAD to note that several florists are devoting some of their spare time to photography. We have received quite a few photographs of late made by the senders who are florists. Mr. C. B. Whitnall, of Milwaukee has sent us several and he finds his camera very useful. Of course in many of these amateur attempts the focus is bad and they are not good enough for reproduction by the halftone process, still they are of value. We believe that the camera is destined to play an important part in floriculture in the future. What a valuable record a grower would have if he could have a photograph of his house of roses, carnations, or other plants, taken every few weeks, thus preserving for future reference a complete picture of the growth and

bloom at every season. Each photograph should of course be dated and the collection arranged according to dates. He could then at any time refer back to a previous year's photographs and see whether his present year's growth or crop of bloom was equal or less than at the same date the year before. He wouldn't have to guess at it, he would know. The day may come when we can present to our readers a weekly view of the condition at date of the new plants being grown in the experimental greenhouses which the AMERICAN FLORIST may in the future build and conduct in the interest of the trade.

WHEN SENDING us flowers for inspection please do not fail to give your name and address with the prefix "from" on the outside of the package so we may know at once who the package is from. The mail received at this office is very large and as the package and your accompanying letter are rarely received together, unless the name is given on the package it is sometimes impossible to identify the package to which reference is made, especially when a number arrive at the same time, each containing "a seedling carnation" or varieties of some other flower. If the weight is not so great as to make the postage at letter rates very high, better enclose the letter right in the package and stamp at rate of 2 cents an ounce. Then there will be no possibility of failure to identify. And by the way flowers sent us by mail very rarely reach us in even fair condition. Even when coming only a short distance by mail they are almost always sadly shrivelled, and it is simply guess work trying to determine what they were like when fresh. Better send by express if at all and enclose your letter in the package.

COST OF PRODUCTION.—We are pleased to note the increased interest in this important matter. But in estimating profits on the growing of cut flowers the basis should certainly be the current wholesale prices. If a florist conducts a store in connection with his greenhouses the profits of the store should not be credited to the greenhouses. Flowers grown should be charged to the store at the same rates a retail dealer pays in the regular course of business, and when there is a surplus unsold a fair proportion of the waste should be charged back to the greenhouses. Each department of your business should stand on its own merits.

THE VIOLET DISEASE is still with us, but the enormous crop of bloom sent to market this season would indicate that it has been much less virulent than in recent years. Some who were formerly seriously troubled by the disease have been comparatively free this season, and even where the disease had a foothold very good crops of flowers were obtained. Has the violet disease about run its course?

TRADE LISTS published in the AMERICAN FLORIST are bound in with the paper and are of permanent value. Of those which reach the trade otherwise many go into the wastebasket, and some into an obscure pigeon-hole. Which way are you going to circulate your trade list?

TWO FAIR sized blooms of a carnation a little deeper in color than Garfield have been received from the Logansport Floral Co., Logansport, Ind. They state that it is a sport from Hinze's White, which it resembles in growth and every other respect excepting color.

THAT ITEM about the flower discovered in Central America, which changes color three times a day (red, white and blue) is again making the rounds of the dailies. It occurs in an eastern paper pleasantly close to an advertisement of a cure for "short breath, pain in the chest" etc.

MR. JOHN THORPE who has been in poor health for the past three months is beginning to feel more like his old self again. He expects to have his new book, "The Chrysanthemum," ready for publication early next fall.

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

THIS is the last call for ads. in the Easter number. Copy must be mailed at once on receipt of this issue to reach us in time. We shall close on Monday, the 16th, at noon for the last forms.

IF YOU LIKE the AMERICAN FLORIST give it your fullest support by confining your orders to those who advertise in its columns and mention the paper when ordering.

Coming Exhibitions.

March 17-20, Philadelphia.—Spring exhibition Pennsylvania Hort. Society.

March 25-26, Montreal.—Spring exhibition Montreal Gardeners' and Florists' Club.

March 31-April 3, Boston.—Spring exhibition Mass. Hort. Society.

April 7-11, New York.—Spring exhibition New York Florists' Club.

April 14, Los Angeles, Cal.—Rose show Southern California Floral Society.

April 16-17, Syracuse, N. Y.—Spring exhibition Central New York Hort. Society.

April 22-23, Baltimore.—Spring show Gardeners' Club of Baltimore.

May 6-8, San Francisco.—Annual flower show California State Floral Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

Catalogues Received.

Wood Bros., Fishkill, N. Y., trade list plants; Germond & Cosgrove, Sparkill, N. Y., trade list roses; Pike & Ellsworth, Jessamine, Fla., plants; Chas. D. Ball, Holmesburg, Philadelphia, Pa., trade list decorative plants; W. J. Hesser, Plattsmouth, Neb., trade list decorative plants; Pike County Nurseries, Louisiana, Mo., price list nursery stock; V. Lemoine, Nancy, France, plant novelties; Chas. T. Starr, Avondale, Pa., plants; John Thorpe, Pearl River, N. Y., chrysanthemums; B. A. Elliott Co., Pittsburg, Pa., hardy plants; Parsons & Sons Co., Flushing, N. Y., nursery stock; E. Forget & Cie, Paris, France, bouquet papers etc.

PEORIA, ILL.—J. M. Cole lost his only child, a bright girl of 6 years, by diphtheria.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO.

(Successor to Vaughan's Cut Flower Dept.)

All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. **42- WIRE WORK A SPECIALTY.**

C. H. FISK, WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES, 116 Dearborn Street, CHICAGO.

OPEN NIGHTS AND SUNDAYS.

WIRE DESIGNS IN STOCK.

E. J. HARMS, Wholesale Dealer in CUT FLOWERS, And Florists' Supplies.

89 Wabash Ave., CHICAGO.

Store Open: Nights 9 P. M.; Sundays 2 P. M.

CUT FLOWERS.

The Western Trade Solicited.

Write or Telegraph.

SMITH FLORAL CO., 77 7th Street S. - Minneapolis, Minn.

O. W. Frese, Wholesale Cut Flowers, 66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
given to shipping orders.

C. STRAUSS & Co. GROWERS OF CUT FLOWERS.

—) WHOLESALE ONLY. (—

SPECIALTY—Filling Telegraphic Orders.
WASHINGTON, D. C.

SPECIAL OFFER FOR CASH,

TO MAKE ROOM.

KENTIA, Bel and Post, 3 ft. high, 4 to character leaves..... \$ 3.00
" Bel. and Post, specimens, 3 1/2 feet high, 5 to 6 character leaves..... 5.00
" Bel. and Post, 2 1/2 to 3 ft. high, 3 to 4 character leaves..... 2.00
" Bel. and Post, 2 to 2 1/2 ft. high, 3 to 4 character leaves..... 1.50
Aspidistra variegata, 5 to 6 leaves..... .75
Pandanus Veitchii, nine plants, 5 and 6 in. pots..... 1.50
Cocos Weddelliana, 2 feet high..... 1.50
All the above grown cool and in fine condition for immediate use.

AZALEAS in best varieties, plants 15 inches in diameter, well set with buds.

E. W. WEIMAR, Mt. Vernon, N. Y.

I WANT ROOM

And will sell Geraniums:
Named, 2 1/2 inch pots..... \$3.00 per 100
Mixed..... 2.00
Named Rooted Cuttings..... 2.00
Mixed..... 1.00
New Achilles Alba Fl. Pl. (the gem) 2 inch pots..... 3.50
James Frost, Greenville, O.

@ Wholesale Markets.

Cut Flowers.

BOSTON, March 9.	
Roses, Hybrids.....	2.00 @ 3.00
" Tea.....	2.00 @ 3.00
" Niphetos, Gentians.....	3.00 @ 4.00
" Mermets, Brides.....	6.00 @ 8.00
" Perles, Sunsets.....	4.00 @ 6.00
" Frezias.....	2.00 @ 3.00
Carnations.....	1.00 @ 2.00
Violets.....	3.00 @ 4.00
Valley, Tulips.....	2.00 @ 3.00
Narcissus.....	2.00 @ 4.00
Callas.....	1.00 @ 2.00
Harriell.....	4.00 @ 8.00
Smilax.....	15.00 @ 18.00
Adiantum.....	1.00 @ 1.50
Azaleas.....	12.00 @ 15
Heath, per bunch.....	.50 @ .75
Primroses, per bunch.....	.75 @ .15

NEW YORK, March 9.	
Roses, Beauties.....	1.50 @ 2.00
" Bon Silences.....	2.00 @ 3.00
" Perles, Gentians.....	2.00 @ 4.00
" Niphetos, Soures.....	2.00 @ 3.00
" Mermets, Brides.....	3.00 @ 6.00
" Watteilles, Cousins.....	3.00 @ 6.00
" Hoses.....	2.00 @ 3.00
" La France.....	5.00 @ 10.00
" Wootton, Bonnets.....	3.00 @ 5.00
" Woottons.....	3.00 @ 4.00
" Hybrids.....	1.50 @ 3.00
" Jacq.....	3.00 @ 12.00
Romans, daffodils.....	2.00 @ 3.00
Valley, Tulips.....	2.00 @ 4.00
Carnations, long.....	1.00 @ 1.50
Violets.....	4.00 @ .75
Mignonette.....	1.00 @ 2.00
Frezia.....	1.00 @ 2.00
Smilax.....	15.00 @ 25.00
Harriell.....	6.00 @ 10.00
Lilac per bunch.....	.75 @ 1.00

PHILADELPHIA, March 9.	
Roses, Beauties.....	2.00 @ 4.00
" Brunners.....	.70 @ .
" La France, Albany.....	5.00 @ 10.00
" James, Louises.....	35.00 @ 40.00
" Mermets, Brides.....	8.00 @ 10.00
" Wootton, Bonnets.....	3.00 @ 5.00
" Perles.....	4.00 @ 5.00
" Gentians.....	6.00 @ 8.00
" Hoses.....	6.00 @ 8.00
Valley, Tulips.....	6.00 @ 8.00
Romans, daffodils.....	4.00 @ 5.00
Carnations long.....	1.00 @ 1.50
" Harriell.....	.75 @ .10
Violets, double.....	.25 @ .25
Smilax.....	20.00 @ 1.00

CHICAGO, March 11.	
Roses, Bon Silences.....	2.00 @ 3.00
" Perles, Niphetos.....	4.00 @ 6.00
" Mermets, Brides.....	6.00 @ 8.00
" Bonnets.....	6.00 @ 8.00
" Gentians.....	4.00 @ 5.00
" Benetta, Woottons.....	6.00 @ 8.00
Carnations, short.....	1.00 @ 1.00
" long.....	1.00 @ 1.00
Carnations, long, fancy.....	2.00 @ 3.00
Valley, Tulips.....	2.00 @ 3.00
Roman hyacinths, narcissus.....	3.00 @ 4.00
Smilax.....	12.00 @ 15.00
Adiantum.....	1.00 @ 1.25
Violets.....	4.00 @ 1.25
Callas.....	10.00 @ 15.00
Harriell.....	10.00 @ 15.00

WM. J. STEWART, Cut Flowers & Florists' Supplies

—) WHOLESALE. (—

67 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & CO.

Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES.

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.

ORANGE BLOSSOMS

As long as blooming—probably for next two or three weeks, at \$1.00 per doz. sprays, of 3 inches long.

Address or wire to

R. MAITRE,
Putnam Building, NEW ORLEANS, LA.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,

And the Choicest ROSES for the fall and winter season.

W. S. ALLEN, Wholesale Dealer in Cut Flowers

36 EAST 23rd STREET, NEW YORK.

[ESTABLISHED 1871.]

Price List sent upon application.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS,

NO. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

FRANK D. HUNTER, WHOLESALE DEALER IN CUT FLOWERS

51 West 30th St., NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST

53 WEST 30TH STREET,

NEW YORK.

A. S. BURNS. J. I. RAYNOR. BURNS & RAYNOR, WHOLESALE FLORISTS, 11 West 28th St., NEW YORK.

J. M. McCULLOUGH'S SONS, Wholesale Commission Dealers in CUT FLOWERS

134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES:

ROSES, CARNATIONS AND ORCHIDS.

LaRoche & STAHL, Florists and Commission Merchants

—OF—

CUT FLOWERS,

1237 Chestnut Street, - - PHILADELPHIA.

Consignments Solicited. Special attention paid to shipping. Mention AMERICAN FLORIST.

ELLISON & KUEHN, —) WHOLESALE (—

FLORISTS,

1122 PINE STREET,

ST. LOUIS, MO.

WHOLESALE CUT FLOWERS AND FLORISTS' SUPPLIES.

THE WISCONSIN FLOWER EXCHANGE,
133 Mason Street, MILWAUKEE, WIS.

☞ The Seed Trade. ☞

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president, JOHN POTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

Seed Warranty Again.

We all admit that Boston is the hub and that all ideas primarily come from that source. The Boston seedsmen are just now having an interesting discussion about seed warranty. A or rather B prints in his catalogue the following:

A PRACTICAL WARRANTY.

"The keen competition that of late years has crept into the seed business unquestionably has reduced prices, but it has in no way been an advantage to the planter; it has rather emphasized the mercantile tendency to buy in the cheapest market, so that, although lower quotations are made, the average profit is maintained the same. This must be done with the deteriorated strains, which are always most prolific of seed, being sold to the consumer, and he alone realizes and can tell with what fearful results. The increased acreage under cultivation, the tendency to lower prices for all the products of the soil, are indications that the farmer must give over all old time methods, and set to work with more force and science. A greater discrimination must be exercised in using expensive chemical fertilizers, assurance must be had that the seeds he sows have not only germinating power, but are the sorts claimed, if paying crops are to be harvested. The products of the European and Californian seed farms are not, in most cases, suited to our uncertain climates, although they are a great temptation alike to the ignorant and unprincipled wholesale dealer who supplies the small retailers with package seeds on commission or the still cheaper rubbishian bulk. To remedy this evil, which is admitted by all to exist in the seed trade, we now propose to adopt a system of guaranteeing all seeds sold by us direct to the consumer as follows: First, our seeds are guaranteed pure and clean, and of the percentage of vitality named on the label accompanying and describing contents of each package. Second, this guaranty is subject to the test and analysis of the Botanist of any of the State experiment stations, and to properly authenticated complaint being made to us within twenty days from time of purchase of seeds complained of. If the result of the analysis does not confirm the guaranty, we will take back the seeds, and refund the money paid for them, and pay the cost of transportation both ways. Third, seeds once sown, or the above specified time for complaint having expired, our responsibility ceases. The results in field culture depend upon so many things besides the quality of the seeds, that the growth and crop cannot be guaranteed. The advantages of this method of guaranty will at once be apparent to the careful farmer; it will give security as to vitality, freedom from noxious weeds, and, to some extent, confidence as to varieties planted; in short by obtaining seeds a few days before they are required for planting, you can have, without cost (for we assume expenses if results of test are unsatisfactory), a warranty against everything except the visitations of Providence. The above guaranty of quality, coupled with our low prices and special offers, will, we venture to predict, be taken advantage of by many farmers and gardeners who

in past years have suffered much loss and disappointment, and cause them not only to give our seeds a trial, but to become permanent customers."

Later E or rather F prints the following adv. in the newspapers.

WARRANTING SEEDS!

"Do not be deceived by smooth words and ingeniously constructed sentences, which mean nothing when analyzed. When any article is sold with a guarantee or warranty, an assurance presumed to be given by the seller to the effect that the article sold shall fully serve the purpose for which it was intended. The farmer purchases and sows seeds with the expectation of a crop that will yield a fair return for time, labor and money invested. If his crop fails, does he expect or will he receive from the seller of the seeds under any so called warranty any satisfaction equivalent? Not at all; he can have more seeds to replace those which failed, if he cares to put his trust in such. Or if he has doubts as to the quality of seeds purchased, he can return them and get his money back, which is very little satisfaction. But if he plants his seeds he must do so at his own risk. The warranty is all a pretence and not worth the paper that it is printed on. The only safeguards that can be relied on by the purchaser of seeds can be very briefly summed up.

"First, the honesty of the seedsmen.

"Second, the painstaking care with which he manages his business.

"We believe in honest representation, and we never intend to make misleading statements in order to sell our goods. The so called warranting of seeds should be fully exposed, and we are in a position to meet any criticism our statements may call for."

Further developments are expected.

O Yes, Certainly.

Gath writing of the Agricultural Department, Washington letter to the Cincinnati *Enquirer* says:

"The department is still a bureau to all influential intents and its principal utility is in the distribution of seeds, where it is a corrective upon the seedsmen, a good many of whose packages are found on being planted to be in the light of wooden nutmegs or wooden oats, and will not grow. This may be due to the carelessness of the clerks in the seedsmen's stores; but I have had plenty of experience in the last six years that seeds will not seed."

"A great agricultural department would distribute many things to be effective in this world, just as many of our seeds and species have been sent to other countries."

[The deep clear reasoning in this last paragraph and the logic supporting it is something wonderful.—Ed.]

The Catalogue Tax.

Mr. Elias Mott writes from Norwich to the *Toronto Globe*—It may be you have heard before this of the "seed catalogue racket" that our moribund Government are playing on the farmers and others of this Dominion. It is a well known fact that tens of thousands of American seed catalogues have been distributed in this country every year, but it now happens that these, which have been formerly freely delivered through the postoffice, all find their way into the capacious maw of the custom house, and we farmers are now receiving daily thousands of notices to this effect:—"Parcel in bond here for you; charges five cents. Return this card with the amount and parcel will be

forwarded." The charges vary from five cents to fifteen cents, and sometimes the "parcel" is called a "book." You can imagine the farmer's disgust, on innocently being caught in this little trap, better than I can describe it. I have now on hand about a dozen of these notices, but I will generously present the "Old Man" with the catalogues in the interests of the Experimental Farm at Ottawa, though I doubt if they will be of any use to him after the 5th of March next. This is only another example of the beauties of the N. P.

ST. THOMAS, ONTARIO, March 4, 1891.

—On the statement of Mr. I. Turville here I learned that many seed catalogues from U. S. were being held at the custom department of the postoffice for duty, the same having been levied at the rate of 20 cents per pound, with 15 cents extra for all illustrated catalogues. I have found this to be a fact and after further investigation am of the opinion that there will be from this office alone a wagon load of beautiful catalogues from U. S. seedsmen sold for waste paper at the end of the season. It occurs to me that the Canadian government is violating its postal treaty with the U. S. If the attention of the U. S. authorities at Washington was called to this the matter might be corrected, as this condition is too evidently spite work of some Canadian seedsmen.

J. E. K.

AM. FLORIST.—Some of the catalogue men add two or three things this year I should not like to catch a fellow planting on my grounds. *Calestegia pubescens*, it is truly said, "when once got you always have it," and might add—will give more to get rid of it than the 20 cents paid. Even so with that wild cucumber vine. I fought them all my younger days and they are there yet, or were when I moved away. They do not lie about these vines, but do not tell the whole truth.

N.

BOSTON, FEB. 27.—Your interesting articles on advertising have been carefully read and are certain to benefit the trade. We have been a subscriber to the *FLORIST* from the first and would not like to be without it. It is a good live journal and of inestimable value to the florists. The South Market street stores are doing a larger mailing business than usual. Orders are averaging larger than last year, though it is rather early yet for our trade.

J.

LONDON, ONTARIO.—Mr. Jas Griffin has reopened his seed store at 171 King St., having been burned out the night of February 28th, at his old stand, 215 Dundas St.

E. B. CLARK, of Milford, Conn., has associated with him in business, under the firm name of Everett B. Clark & Son, Herbert A. Clark and Walter E. Clark.

MR. OSCAR WILL, the seedsmen of Bismarck, N. D., has been appointed a member of the State Board of Agriculture of North Dakota.

S. L. SHELTON & Co., implement and seed dealers at Madison, Wis., burned out March 3. Reported loss \$15,000, mostly insured.

RAILROADS governed by the Central Traffic Association are reported to have lowered classification on sweet corn.

MAJ. CHAS. P. BRASLAN and Mr. Geo. S. Haskell, lately made a flying trip to Philadelphia and New York.

USE FERRY'S SEEDS

BECAUSE THEY ARE
THE BEST.
D. M. FERRY & Co's
Illustrated, Descriptive and Priced
SEED ANNUAL
For 1891 will be mailed FREE
to all applicants, and to last season's
customers. It is better than ever.
Every person using Garden,
Flower or Field Seeds,
should send for it. Address
D. M. FERRY & CO.
DETROIT, MICH.
Largest Seedsmen in the world

G. J. MOFFATT,
Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.

Samples and prices on application. When writing
for prices, please state size and quantity wanted.

SPECIAL
Terms quoted to all
FLORISTS' BULBS
who order their Fall use from
now for Spring and Fall use from
A. ROLKER & SONS,
136 West 42d St.,
NEW YORK.
STATION E

OUR BUSINESS,
SEEDSMEN.
Our Specialty,
SELECTED STRAINS FOR FLORISTS
Trade List on Application.

SCHLEGEL & FOTTLER, Boston, Mass.

TRY DREER'S
GARDEN SEEDS
Plants, Bulbs, and
the best at the lowest prices.
FRESH LIST issued
regularly, mailed free to the
trade only.
HENRY A. DREER,
Philadelphia

FLOWER SEEDS!

Just received 500 varieties FRESH
FLOWER SEEDS, positively 1890
CROP. Get our Book for Florists.

J. C. VAUGHAN, CHICAGO.

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND.

LARGEST GROWERS OF

**HYACINTHS, TULIPS, NAR-
CISSUS, SPIRÆA, LILIES**
OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Whole-
sale Importers should write us for prices.

LILY OF THE VALLEY PIPS.

(Selected strong 3-year-old Pips.)
For terms and particulars apply to

WM. HAGEMAN,
Elighth and McKean Sts., Philadelphia, Pa.
Sole agent for the U. S. for the United Harnum
and Berlin Growers, Office Hamburg Piermarkt 23.
Highest U. S. reference furnished as to quality.
Member American Florist.

Z. DE FOREST ELY & Co.,

WHOLESALE

Seed Growers and Merchants.

Carry one of the most complete and extensive stocks of GARDEN SEEDS
in the United States. We make a specialty of GROWING PEAS and BEANS,
AMERICAN TURNIP and CABBAGE SEEDS, ONION SETS and
PURE SEED POTATOES. We cater to the Jobbing trade. WRITE
FOR PRICES.

NOW READY.

TUBEROSES,	DOUBLE PEARL	Per 100	Per 1000
GLADIOLI,	Fine Large Bulbs.....	\$1 00	\$ 7 50
	FINE MIXED	1 25	10 00
	EXTRA CHOICE	1 75	15 00
	SHAKESPEARE	7 50	

Also Importers of

Bulbs for Florists.

Dutch and Roman Hyacinths, Tulips, Narcissus and True Bermuda Lilies, (L. Har-
risii). Special import offer for Fall and Summer of 1891 **NOW READY.** Do not
fail to write for it. Liberal terms, fair prices, selected quality and square business
treatment. Address

Z. DE FOREST ELY & CO.,
1301 and 1303 Market Street, PHILADELPHIA, PA.
and 246 North Broad St.
Registered Cable Address, DEFOREST, Phila.
P. O. BOX 1176.
TELEPHONE 1298.

NOW READY AT 1 DAY'S NOTICE.

20,000 Vines (variegated trailing) from 2-in. to 3-in. \$2 per 100; good strong plants from flats \$1.50 per 100; rooted cuttings, early fall struck, \$1 per 100. 5000 Gem Feverfew, the best for potting or cutting. Strong plants 5-inch, \$2 per 100. 1000 Hardy Snow Pinks, strong, flats \$2 per 100. 1000 Phlox Nana compact and strong of 15 varieties, with soon bloom, flats \$1.50 per 100. 500 Begonia Saundersnood, 4-in. long, \$2 per 100. Mums, various by the 100 and 1000, complete set of 15 beautiful named varieties all colors, and many of them sweetly scented, stock perfectly healthy, ready March and April, strong, from flats, \$1.50 per 100. \$12 per 1000; rooted cuttings, \$1 per 100. \$4 per 1000. Mums by the 100 and 1000. None but the best new and standard sorts, all colors early and late. Ada Spaulding, Minnie Wadmanaker, Brittony, Ivory Price, Canning, Mrs. Bullock, Art Beauty, Howard, Snow Ball, Porcupine, Grandiflora, Hark K.O. Burpee, 100 others, the very cream of all, complete set in 20 varieties, all shades, the range of the season, 5-inch our choice, \$6 per 100; extra good strong plants from flats, the run of the kinds, our choice, \$2 per 100. Mixed Puchsias, rooted \$1 per 100. \$3 per 1000. Acanthum White Cap, Trailing Lobelia 50c per 100; rooted cuttings and plants from flats free by mail, if preferred. Satisfaction guaranteed, see other special offers.

J. C. GIBSON, Woodbury, N. J.

A BEAUTIFUL NATIVE CRINUM.

Crinum Americanum, white flowering, bulbs 2 to 2½ in. in diameter \$3.00 per 100; \$25.00 per 1000.

Crinum Nassau, No. 1, white, striped petals, \$8.00.

No. 2, larger flowers, per 100.

Cosmos, white, seed, 5 lbs., per oz. 65c; per lb. \$3.

Antigonon lept. seed, 15 lbs., per oz. 65c; per lb. \$3.

1-year strong, field grown, 6c each.

Amazyllis pep. rosea, \$3.50 per 100; \$30 per 1000.

THE BROOKS SISTERS, Sorrento, Fla.

W. W. Barnard & Co.,
6 & 8 North Clark Street, CHICAGO.

SEEDS, BULBS, IMPLEMENTS.

Please write us if you fail to receive our trade list
for Florists.

Illustrated Seed Catalogue mailed free to any
address.

CANNAS.

Rhemamill and LaTour de Grand Ronde, \$1.00
Emil Leclaire, Noutoni and Adolph Weick, \$12.00

Tuberoses, Pearl, \$100.00 per 1000 \$10.00

Caladina Excelsium, 1st size, \$1.00 per 100 7.00

2nd size, \$1.00 per 100 7.00

Can use in exchange, 1,000 Carnations, Rooted Cut-
tings.

E. S. NIXON & SON,
Chattanooga, Tenn.

Member American Florist.

Surplus Stock

	Per 100	Per 1000
Abutilon Eclipse, 2 in.	\$ 60	\$ 600
" Golden Bells,	60	600
" in variety,	60	600
Agatha Celestis (blue daisy), 3 in.	60	600
Akenia Malvaivosa,	60	600
Crape Myrtle, 3 colors, 3 in.	1 00	
Feverfew, Little Gem, 3 in.	75	5 00
Geraniums, standard sorts	75	5 00
" scented, 2 in.	60	600
Glaphallium Lanatum,	60	600
Geranium, Mad. Saleroi,	60	600
Hibiscus, in variety, 4 in.	1 00	8 00
" 3 in.	75	5 00
Ivy, English and variegated 2 in.	60	600
Lantana, various sorts 2 in.	60	600
" best white 4 in.	1 00	8 00
Mesembryanthemum Cor. Var. 2 in.	60	600
Nierembergia Gracilis 2 in.	60	600
Pilea Muscosa, 2 in.	60	600
Plumbago Capensis 4 in.	75	6 00
Plumbago Capensis Alba 2 in.	60	600
Roses, Hermosa, M. Guillot, Mad.	60	600
Jos. Schwartz, 2 in.		
Roses, Bride, La France, Perle,		
Mermet, M. Guillot, Gontier, 3 in.	75	5 00
Roses, Countess de la Barre, Cornelia		
Cook, Camoens Mad. Scipio		
Cochet, Mad. Cecil, Brunner, M. Niel,		
The Bride, Sour, de St. Pier,		
Giant and Genl. Jacq's, 2½ in.	60	4 00
Verbenas, standard sorts, 2 in.	50	3 00
" Vista, finest with 2 in.	60	4 00
" rooted		
Cuttings,		
Verbenas, general collection, \$2 per 1000	1 00	
Verbenas,	75	

A. GIDDINGS, Danville, Ill.

**Tuberose Bulbs and Sets, Dwarf
Pearl and Fall Double**

Tuberose Bulbs,

Suitable for mailing, \$3.50 per thousand. Also
Tuberose sets, \$5.50 per barrel. Address

S. J. VAN HOOK,

PLUM POINT,

De Soto Co., Mississippi.

**MY NEW SPECIAL OFFER OF
EXTRA CHOICE FLOWER SEEDS**
is now published and may be had on application.
FRED. ROEMER,
SEED GROWER
Quedlinburg, Germany.

Substantial Rose House.

Last fall I built a rose house which I believe to be as good a wooden green-house as was ever erected. It is 75x20 feet, three-quarter span, north wall 8 feet high, and south wall 4 feet, north side of roof 9 feet and south side 18 feet.

All locust posts were used, each post 5 inches square, and the plates and all the lumber above the plates is cypress. Locust is also used for the front of the benches inside the house.

I run my four steam pipes on the front of the front bench resting across 1-inch pipe set in an auger hole in every second 2 feet of the front bench. As the foot is locust wood I will not have to change them for many years as locust will last from 20 to 40 years outside for fence posts.

All the siding is first growth pine, two thicknesses of paper between all. The houses are piped with 2-inch pipe for steam. My center bed is a solid bed 20 inches high with a 2-inch pipe all around it, four pipes in front and two more pipes hanging on the back posts down low. That makes nine 2-inch pipes, four under the south bench, one around center bed, two on back wall and one on the top near glass, under the ridge.

I have one old house 115x25 feet heated by hot water. I do not feel like giving up the hot water yet.

JOHN RALPH.

Saratoga Springs, N. Y.

LAST CHANCE now to get your adv. in the double Easter number to be issued next week. Copy must be received at this office by noon, Monday the 16th to be in time.



EASTER LILIES.

Electro of this Cut (No. 924) \$1.

A. BLANC, PHILADELPHIA, PA.

Largest stock of Florists' Cuts in the world. Catalogue of 4,000 cuts 50 cents.

Lilies, Etc. for Easter
HARRISII.

LONGIFLORUM,

CANDIDUM.

— Prices on Application. —

GERANIUMS, Single & Double, of the leading varieties, 2½-in. pots, at \$4 per 100; \$5 per 100.

HYDRANGEA OTAKSA, from 5 to 10 inch pots, \$15 to \$50 per hundred.

W. A. BOCK, N. Cambridge, Mass.

DAHLIAS



R. GEORGE.

THE STORRS & HARRISON CO.,

Painesville, Lake Co., Ohio.

Hydrangea Grandiflora.

We ask the attention of Dealers and the Trade to our large stock of **HYDRANGEA GRANDIFLORA**, nice well grown plants at very low prices, viz:

HYDRANGEA GRANDIFLORA.	2 year, 2 to 2½ feet, strong, Price, \$2.00 per 100; \$60.00 per 1000.
HYDRANGEA GRANDIFLORA.	2 year, second size, 18 to 24 in., good. Price, \$6.00 per 100; \$50.00 per 1000.
HYDRANGEA GRANDIFLORA.	1 year, 8 to 12 inch, fine mailing plants. \$5.00 per 100; \$40 per 1000.

Samples on application with stamps. Correspondence solicited.

ADDRESS **THE DINGEE & CONARD CO.,**
West Grove, Pennsylvania.

JAPAN SNOWBALL.



Blooms freely every Spring. Flowers unsurpassed for florists' use. Over \$150 realized last Spring from flowers sold at wholesale, from less than 300 2-year old plants.

PRICE: 12 to 18 inches, \$2.00 for 10; \$18.00 per 100.
2½ to 3 feet, \$3.00 for 10; \$25.00 per 100.

Wholesale Catalogue with colored plate of Japan Snowball free.

HYDRANGEA PAN. GRAND. Our one year old plants are superior to any offered, and lower priced. 2 to 4 stems 18 to 24 inches, 75c. for 10; \$6.00 per 100; \$50.00 per 1000.
2 to 2½ feet, \$1.25 per 10; \$10.00 per 100.

MEEHAN'S NURSERIES,

STATION G, GERMANTOWN, PHILADELPHIA.

Mention American Florist.

BOOK YOUR EASTER ORDERS NOW.

FERNS.

Only few thousand **CUNEATUM** and **GRACILLIMUM** left, 5 inch pots, size 15x18, per dozen, \$6; 4-inch pots, size 12x12, per dozen, \$3. All other sizes sold out.

PTERIS SERRULATA, 3 inch pots, per 100 \$5.00.

CALLAS, strong plants in bud or bloom, 5 inch, per dozen,	\$1.50
" " " " " 6-inch, " " " "	6.00
" " " " " 7-inch, " " " "	9.00

J. L. LOOSE, Alexandria, Va.

3,000 Gen'l Jas. Rose plants, 4-in. pots, per 100, \$6.00
Cuteus Cuttings rooted, Verschaffeltii, Golden Seed, Golden Verschaffeltii and Sunset, per 100 75c.
per 100, \$5.00.

JOHN RECK, Bridgeport, Conn.

HAIL

Lock the door BEFORE the horse is stolen. Do it NOW!
JOHN G. ESLER, Sec'y F. R. A.,
Saddle River, N.J.

60 choice sorts. All the best varieties. Field grown roots of Large-flowered, Pompon, Cactus and Single, \$7.00 per 100; \$60.00 per 1000.

NEW BEGONIAS.

LOUISE CLOSSON—One of the richest colored of the Rex family. \$2.50 per dozen.

R. GEORGE—The strongest grower and most showy of this class; leaves large with distinct palmate center of bronzy green. \$3.00 per doz.

MARQUIS DE PERALTA—Extra fine. \$2.00 per doz.

COMTESSE LOUISE ERDODY—The whorled leaf. \$12.00 per 100.

REX—in fine assortment of named kinds, \$5.00 per 100.

GERANIUMS.

SOUVENIR DE MIRANDE—The finest novelty in years. \$10.00 per 100.

NEW, of the Braunt race, for 1890, \$3.00 per doz.

STANDARD VARIETIES—Best bedding sorts, \$4.00 per 100; \$35.00 per 1000.

200,000 ROSES, including all the standard forcing varieties, and the new Red Mermet (Waban), at lowest prices.

A full stock of Bedding Plants, Chrysanthemums old and new, Hardy Shrubs, Clematis, field-grown Roses, Fruit and Ornamental Trees, Small Fruits, Grape Vines, etc.

CATALOGUES AND PRICE LISTS FREE.

— ORIGINAL AND LARGEST GROWERS OF —
LILIUM HARRISII, BETTER KNOWN AS **THE BERMUDA EASTER LILY**.
 BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 120 in length, of a crop of *Liliium Harrisii* in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fits in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its fullest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 20,000 bulbs for his own use. We hear it said occasionally that *Liliium Harrisii* flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

"I, L. Russell, Denver, Colo., writes: 'The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing.'"
 "The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: 'The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry.'"

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

— **HALF A MILLION BULBS.** —

Be sure you get the genuine *Liliium Harrisii*. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant *L. Longiflorum* in Bermuda, planting it with *Harrisii* to increase their stock rapidly when *Harrisii* was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Forcing Romans and Narcissus.

Will some one be so kind as to tell me through the FLORIST the way to treat narcissus and Roman hyacinths to get them in early—say the first of December, or even by Christmas?

I boxed a lot of narcissus and Romans about the first of September last, left them out doors for five or six weeks. They got a light frost but not enough to freeze the ground. Then I took them in and tried to force them. Some of these same narcissus are not in flower yet and the Romans were never any good. Other bulbs of both that I put in later did well. And some of the same lot of bulbs put in not a month ago are now almost in flower—that is, the Von Sion—I did not grow any other kind of narcissus this winter.

Would it do any good to freeze the bulbs in September, before planting? And is there any difference in the Von Sion as to earliness. Are there two varieties, one earlier than the other?

New Haven, Conn. ENQUIRER.

Wall Flowers.

Will some of the readers of the AMERICAN FLORIST please tell me when wall flowers bloom in America, and when the seed should be sown. Do they stand the summer sun here? I have had no experience in growing the wall flower out of doors in this country though have often flowered them in a carnation house all winter. In England they grow all over on rocks and walls all winter and may be had in bloom nearly all the year round by sowing seed in succession.

Yonkers, N. Y. SUBSCRIBER.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. Schelmire,
AVONDALE, PA.

NELLIE LEWIS.

HAVE GROWN THE CARNATION TWO SEASONS AND NOW OFFER ROOTED CUTTINGS FOR IMMEDIATE DELIVERY
At \$2.50 per dozen. Four for \$10.00,
By mail postpaid.

GEO. HANCOCK, Grand Haven, Mich.

Rooted Cuttings of Carnations

In great quantity, ready now.

Also 25,000 **PEARL TUBEROSE BULBS**
1st size at \$7.00 per 1000,
2d size at \$5.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

CARNATIONS.
ROOTED CUTTINGS

of New and Old varieties at the lowest price possible to secure good stock from healthy plants. Seventy-five thousand will be ready by Feb. 1st. Send for catalogue or price list.

SEND ORDERS EARLY.

ISAAC LARKIN, Toughkenamon, Pa.

Carnation Cuttings.

Boxed off and well established. Send for Price List.

DE WITT BROS.,
BRISTOL, PENNSYLVANIA

ROOTED CUTTINGS.

CARNATIONS: All sold until April 1st, will then have a large stock of the Standard sorts and **Lizzie McGowan**. Over 100,000 **L. L. LAMBORN**, **MRS. FISHER** and **SILVER SPRAY**. Send for Descriptive List with prices.

COLEUS, a choice assortment of the best bedders at \$6.00 per 1000, 75c per 100; **Golden Bedder** or **Verschaffeltii** alone \$7.00 per 1000.

CANNA EHEMANNI, strong roots at \$7.50 per 100. **EMILE LECLAIRE** \$8 per 100.

SMILAX.

This is one of my spring specialties and is gotten up in first class shape for \$6.00 per 1000; samples to cents.

PANSIES.

My Pansies are sold up to April and only a few left for then; they are the best in the market and delay will find them all sold. Orders are coming in for next fall; there is nothing like being on time.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

LIZZIE McGOWAN,

* * THE QUEEN OF WHITE CARNATIONS! * *

Will be ready for distribution February 10th, '91. Price, \$12 per 100; \$100 per 1000, for strong well rooted plants from cutting bench. Plants well established in small pots, \$3 per dozen.

Send for price and descriptive list of this and other sorts.

ADDRESS

H. E. CHITTY, PATERSON, N. J.

Mention American Florist.

Rooted Cuttings.

NOW READY. UNSURPASSED IN QUALITY.

GOLDEN GATE, - - - - - Grandest New Pure Yellow.

ROOTED CUTTINGS, \$1.50 per dozen; \$12.00 per 100; \$100.00 per 1000.

WM. F. DREER, - - - - - Magnificent, Fringed Rose Pink.

ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

J. R. FREEMAN, - - - - - Fragrant, Crimson Scarlet.

ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

CONSTANCY, - - - - - Glowing, Bright Scarlet.

ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

FRED CREIGHTON, - - - - - Delicate, Soft Pink.

ROOTED CUTTINGS, 60 cents per dozen; \$4.00 per 100; \$35.00 per 1000.

For well established plants from small pots, see ILLUSTRATED CATALOGUE—free.

ROOTED CUTTINGS, at prices per dozen, free by mail.

CHAS. T. STARR, Avondale, Chester Co. Pa.

Mention American Florist.



LIZZIE McGOWAN THE NEW WHITE

CARNATION. ROOTED CUTTINGS, \$12 per 100, or \$100 per 1000.

Summit, N. J., December 6th, 1889.

MR. JOHN McGOWAN,

Dear Sir:—I consider the Lizzie McGowan Carnation the finest White in cultivation. JOHN N. MAY.

Ready for delivery Feb. 10, 1891, 500 at 1000 rate, 50 at 100 rate.

ADDRESS

JOHN McGOWAN,

363 Main Street, ORANGE, N. J.

ROOTED CUTTINGS OF CARNATIONS.

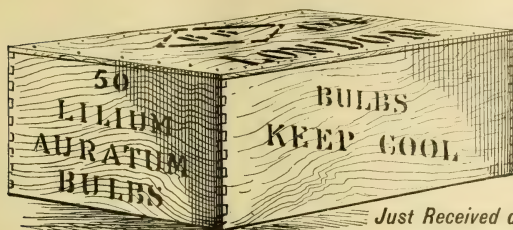
Standard and Fancy varieties, ready January 1st. Stock healthy, cuttings rooted cool. A large stock of NEW WHITE CARNATION L. L. Lamborn. A liberal discount on large lots for later delivery. Send for wholesale price list.

Wm. Swayne, P. O. Box 226, Kennett Square, Pa.

CARNATIONS!

LIZZIE McGOWAN, **FRED. CREIGHTON**, **GOLDEN GATE**, **FAIR ROSAMOND**, **J. R. FREEMAN**, **HECTOR**, **MRS. FISHER**, **WM. F. DREER**, **CHASTITY**, **SILVER SPRAY**, **TIDAL WAVE**, **GRACE WILDER**, **L. L. LAMBORN**, **CONSTANCY**, **EDELWEISS**, **EMILY LOUISE TAPLIN**, **ANGELUS**, **LOUISE PORSCHE**, **NELLIE BLY**, **DOROTHY**, **DAY BREAK**, and sixty other leading varieties. 50,000 new in cutting bench. Send for price list, and order early.

GEO. HANCOCK, Grand Haven, Michigan.



500 CASES LILIUM AURATUM —OR— Golden Japan Lilies

From 10 to 14 inches in
Circumference.

Just Received direct from Japan, via. London.

This importation is the **FINEST** lot that has ever arrived in this country. They are packed in soil—each case containing 50 Bulbs—and will keep perfectly sound until June.

Price per Case, \$6.00.

5 Cases at \$5.75. 10 Cases at \$5.50. 25 Cases at \$5.25. 50 Cases at \$5.00.

Also 100 Cases, assorted varieties, as follows:

2 Liliun Auratum,	4 Liliun Speciosum Album,	4 Liliun Speciosum Rubrum,
6 " Elegans,	6 " Elegans Flore Semi Pleno,	6 " Tigrinum Splendens,
6 " Tigrinum Flore Pleno,	6 " Batemanii,	

at \$7.50 per Case, or Five Cases at \$7.00.

Also 200,000 Double Pearl Tuberoses

-ranging in size from 4 to 7 inches in circumference, at \$8.00 per 1,000, or 5,000 lots at \$7.00.

ROBERT BUIST, Jr., Importer and Grower of Seeds Philadelphia, Pa.
Warehouses—No. 922 & 924 Market St.,

FRESH GREENHOUSE SEEDS, FROM PRIZE FLOWERS.

PRIMULA, Fimbriata Rosen, Fimbriata Alba.....	Trade Pkt. \$.25
PRIMULA, Rubra & Alba, fern leaved.....	.50
PETUNIA, Mammoth Double striped and blotched.....	.50
VERBENA, finest mam. vars. mixed.....	.50
CINERARIA, finest mixed, hybrida.....	1.00
CANNA, Crozy's new large fl'w'g dwf.....	.25
CENTAUREA, Candidissima 50c., Gymnocarpa.....	.25
BEGONIA, double mammoth tuberous rooted mixed.....	1.00
BEGONIA, sgl. mam. tuberous rooted.....	.50
GLOXINIA, finest ext. mixed hybrida.....	.50
CHRYSANTHEMUM.....	
CYCLAMEN, Giganteum, Album and Roseum Superbum.....	1.50
COBEA Scandens.....	.25

Send for my Wholesale List of Flower Seeds FREE. This stock is for the most critical trade. I solicit your orders.

**H. W. BUCKBEE,
ROCKFORD, ILL.**

CHRYSANTHEMUMS , Per 1000.....	Per 100
\$25.00, many choice varieties.....	\$3.00
GERANIUMS, 10 to 20 splendid sorts.....	3.00
ROSES, all the best standard vars., my selection.....	4.00
VERBENAS, in good varieties.....	2.50
ALYSSUM, dbl. white, nice young pits.....	3.00
CANNAS, in six splendid vars.....	3.00
DOUBLE WHITE FEVERFEW, strong 2-inch, ready to shift.....	3.00
HELIOTROPE, Garfield (best purple) 2 1/2-inch.....	3.00
SALVIA, scarlet, white, black & var.....	3.00

Address **N. S. GRIFFITH,**
JACKSON CO. INDEPENDENCE, MO.
(Independence is well located for shipping, being 5 miles east of Kansas City.)

LILIUM WALLICHIANUM SUPERBUM.

HUGH LOW & CO., Clapton Nursery, London, England,

Have much pleasure in informing their friends and the public that they have just received from their collector in India a grand importation of the magnificent and deliciously-scented **LILIUM WALLICHIANUM SUPERBUM**, correctly described as the most beautiful of all the trumpet Lilies. Flowers are of the purest white, the tube about 10 inches long and the interior at the base of the most lovely shade of primrose-yellow.

MESSRS. WM. ELLIOTT & SONS, OF NEW YORK,

Have received a consignment of the bulbs of various sizes, and will be pleased to give quotations and execute orders for single bulbs or in quantity.

ADVIN

WM. ELLIOTT & SONS,

54 and 56 Dey Street,

NEW YORK CITY.

ROOTED COLEUS CUTTINGS.

Golden Bedder, Golden Verschaffeltii, Crimson Verschaffeltii, Peter Henderson, Firebrand, Glory of Autumn, Sunray, J. Goode, Crimson Bedder, Sunset, Etc.

Ten strong Cuttings each, of above ten varieties, by Mail, One Dollar.

Twenty fine sorts, including above, five of each, by Mail, One Dollar.

Write for prices on larger lots by Express. Samples or the 20 sorts mailed for 25 cts. All cuttings strong and healthy, labeled, and well rooted.

ALEX. MCBRIDE, ALPLAUS, NEW YORK

ROOTED COLEUS.

GOLDEN BEDDER, VERSCHAFFELTII, HERO, FIREBRAND, J. GOODE, YEDDO, KIRKPATRICK, GLORY OF AUTUMN, CHICAGO BEDDER,

75 cents per 100; \$6.00 per 1000.

CASH WITH ORDER. **STRONG ROOTED CUTTINGS.**

S. B. FIELD, Roselle, N. J.

Chicago.

Trade is about as dull as it well can be. The regular Lenten stagnation is here. There is a good supply of all flowers and a tremendous glut of lilies and tulips. In fact there is a big surplus of all bulbous flowers except daffodils and valley. The surplus of violets is also large. There has been an immense number of daffodils sold this season, and the sales of carnations have also exceeded those of previous seasons, but tulips are sadly in the dumps at present. The snailax glut has passed and a market is now found at a fair price for all sent in.

There promises to be a tremendous supply of lilies for Easter and it is probable that Easter prices on this stock will be considerably below those of last year. The Easter supply of all flowers will undoubtedly be fully equal to the demand except possibly roses and carnations and the shortage, if any, on them will be slight from present indications.

D. B. Fuller is sending in from his new place at Downer's Grove some of the finest carnations ever seen in the market. Mr. Fuller has some 3,000 pot plants of lilies—candidum and Harrisii—for Easter.

Mr. W. A. Manda of Pitcher & Manda, Short Hills, N. J. spent a few days in the city early in the week.

Mr. Chas. Reissig has in bloom in his orchid house a white form of Cattleya Triana which it is thought may be a rarity. Flowers have been forwarded to experts to determine whether or not it is especially rare. Mr. Reissig has been rather under the weather for the last few weeks, so much so that he has remained at his home at Riverside and has not ventured to visit his city store.

FRESH, FANCY FLOWER SEEDS.

Improved and Superior Strains of Show Flowers for Competitive Exhibition Purposes.

ASTER—Prize Cut Flower varieties.

Buckbee's Snowflake, the finest pure white variety ever introduced, either for cut flower work or general garden purposes. It is of the form, very large, showy, no discolored center, and can be recommended to be all in all respects. Trade packet, 50c. Aster—Washington light blue, Washington white, Washington light blue, cherry red chrysanthemum. Trade packet, 50c. TRADE PKT.

PANSY—Cassier's Mammoth, large flowered, blotched. \$1.00
—Buckton's Prize, superb blotched. 1.00
—Primrose Mammoth Giant, mixed. .50
—Finest mixed, superior quality. .50
—Twenty separate colors. .25
Send for my Wholesale List of florists greenhouse seeds free. I solicit your trade.

H. W. BUCKBEE,
ROCKFORD, ILL.
Mention American Florist.

LITTLE'S ANTIPEST

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

—BY THE—

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the Scale, Woolly Aphis and Insect Pests of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, sure and Cheap**. No fruit grower or florist should be without it.

Send for circulars and price list.

R. W. CARMAN, General Agent,

291 AMITY STREET,

FLUSHING, Queens County, N. Y.

Mention American Florist.



OUR INTRODUCTIONS

NOW IN GREAT DEMAND.

ORCHID CANNA (C. flaccida).

Per 100, \$2.50; per 1000, \$20.

BUTTERFLY ORCHID (Epidendrum venosum).

Per 100 clumps, \$7; per 1000, \$50.

SPIDER LILY or Sea Daffodil (Pancratium).

Per 100, \$3; per 1000, \$25.

AIR PLANTS (Tillandsias).

Per 100 (large), \$6. This is extremely useful and beautiful in decorations, and very lasting.

SWORD FERN (Nephrolepis exaltata).

Strong plants, per 100, \$3; per 1000, \$20.

Write for our large illustrated Catalogue full of good things for the florist.

REASONER BROS., Manatee, Fla.

WE STILL LEAD, OTHERS TRY TO FOLLOW



To whom was awarded the **Only First-Class Certificate of Merit** for "Standard" Flower Pots, at the Sixth Annual Convention of the Society of American Florists, held at Boston, Mass., August 22d, 1890? We were. Why? Because we manufactured and exhibited the **only true "Standard"** Flower Pots, and of which we claim to be the **only** manufacturers at the present time.

FOR REDUCED PRICE LIST, ADDRESS

THE WHILLDIN POTTERY COMPANY,

713 & 715 Wharlon St., PHILADELPHIA, PA.

AGENT FOR NEW ENGLAND STATES:

M. J. MCCARTHY, 27 & 29 Otis Street, Somerville, Mass.

SHEEP MANURE, a natural invigorator for plants and lawns. This is a plant food of great merit, prepared with a view of supplying all the elements necessary for the perfection of plant life. **QUICK, LASTING and ECONOMICAL.**

Pulverized, 100 lb. bag \$3.00; Ton \$40.

Compressed, " \$2.50; Ton \$35.

WM. ELLIOTT & SONS,

54 and 56 Dey Street, N. Y.

Established
Over 50 Years.

Largest and
Most Complete
Stock in the
United States.

Mention this paper.

FRUIT TREES

and ORNAMENTAL

Evergreens, ROSES, Shrubs, Grapes,
Hardy Plants, Pæonies, Small Fruits.

ELLWANGER & BARRY,
Mount Hope Nurseries, ROCHESTER, N.Y.

Illustrated and
descriptive priced
Catalogue, con-
taining important
information for
planters—
Also wholesale list
for the trade,
FREE.

150 Acres.

Large Assortment.

TREES, SHRUBS, VINES,

FRUIT and ORNAMENTAL.

TRADE LIST ON APPLICATION.

SELOVER & ATWOOD,

GENEVA, N. Y.

PLANTS

WANTED.

1000 Plumbago Capensis.

1000 Rhynchospermum Jasminoides.

1000 Cannā Ehmannii.

1000 Clerodendron Balfourii.

In small plants. Send sample and price. Smaller quantities accepted.

A. BLANC & CO.,

PHILADELPHIA, PA.

We will buy all Cactuses offered at a fair price. None but well grown plants wanted. Our stock of 200,000 plants is going off faster than we expected.

LAINGS' BEGONIAS

ARE THE BEST IN EXISTENCE.

Awarded Four Gold Medals, Gold Cup, and All the Highest Honors. First Prizes

Tubers, named singles, 12s. 18s. 24s. 32s. and 42s. per dozen; unnamed seedlings, 12s. 18s. and 21s. per dozen; bedding choicest, 1s. and 3s. per dozen; choicest named doubles, 10s. 12s. 18s. and 21s. per dozen; unnamed, very choice, 21s. and 32s. per dozen; choicest mixed, 18s. per dozen. The cheapest and best combined procurable. Small quantities can be mailed by sample post. Trial orders solicited. Wholesale and retail. Catalogues free by post.

JOHN LAING & SONS,

Begonia Specialists, Etc.,

FOREST HILL, S. E. LONDON, ENGLAND.

Begonias! Begonias! Begonias!

I was one of the first in England to handle Begonias, and for some years immense quantities passed through my packing sheds annually, and I was very sorry to be compelled to relinquish their cultivation; **HARDY PLANTS** then demanded all my attention, and these were first, but I have always "kept touch" with the Begonias, as I made up my mind to "pick them up" at the first opportunity. For some time past I have been assiduously working at the **BEGONIA**, I have also been gathering from every known source everything considered superior, and I trust ere long to make my collection second to none. I purpose making

BEGONIAS A GREAT SPECIALTY AT TOTTENHAM.

My knowledge of this family is wide and the facilities for knowing every collection, both private and public, in England and the Continent, has enabled me to secure everything that I consider of great value, especially those possessing **NEW POINTS OF MERIT**, as my aim will be to **WONDERFULLY IMPROVE THE BEGONIA**. I am convinced that but few people can have yet any conception of the capabilities of the plant. I have an **IMMENSE STOCK OF SINGLES AND DOUBLES**, all carefully graded last season, containing every shade of color and those which yield flowers of the largest size combined with perfection of form and improvement of type. In the hope of further developing this attractive flowering plant, I shall plant some hundreds of thousands for next season's show, and I shall be very pleased to exhibit them to any of my friends, who, I am sure, will be surprised at both quality and quantity. **SPECIAL PRICES** for Tubers for present delivery on application.

DAFFODILS AND NARCISSESS.

I shall have an enormous quantity of these to offer for **Fall Delivery**. Special prices on application as the season advances.

THOMAS S. BAYRE, JR.

HALE FARM NURSERIES.

TOTTENHAM, LONDON, ENGLAND.

THE CHEAPEST AND BEST OF ALL.

FIR-TREE OIL INSECTICIDE—soluble.

FOR PLANTS.—To make a solution for washing or cleaning purposes—Half-a-Pint of Fir-Tree Oil to ten gallons of water.

For Green and Black Fly, Thrip, American Blight, Woolly Aphis, etc.—Half-a-pint of the Fir-Tree Oil to two or four gallons of water, or two or three table-spoonfuls to the pint.

For Red Spider and Caterpillar—Half-a-pint of the Fir-Tree Oil to two gallons of water, or three table-spoonfuls to the pint.

For Mealy Bug, Brown or White Scale—Half-a-Pint of the Fir-Tree Oil to four or six quarts of water, four to eight table-spoonfuls to the pint.

For Mildew and Blight on Fruit or Foliage—Half-a-Pint of the Fir-Tree Oil to a gallon of water, or six table-spoonfuls to the pint.

Used with warm water it is quicker in its action than when cold is used.

Soft or rain water is necessary, and Applied with Wagon Tin or Pot Vessels.—Unvalued Iron Vessels must not be used.

FOR ANIMALS.—For Skin Diseases and Killing Vermin mix one part of Fir-Tree Oil with three parts of warm water and wet the affected part each day. In some cases it may be used stronger. For Ring-worm apply full strength with a brush each day.

FOR BIRDS INFECTED WITH PARASITES.—Put a table-spoonful of Fir-Tree Oil in one quart of warm water and dip the bird in it, taking care that its eyes are protected, hold the bird in one hand for one minute, then dip into clean tepid water; this may be repeated, if necessary a much weaker solution may be used by any producer.

Sold in Bottles and Tins.

Manufacturer—E. GRIFFITHS HUGHES,

MANCHESTER, ENGLAND.

SOLD BY ALL SEEDSMEN.

—WHOLESALE AGENTS—

A. ROLKER & SONS, NEW YORK.

H. BAYERSDORFER & CO.,

WHOLESALE

FLORISTS' SUPPLIES ONLY,

58 N. 4th Street,

PHILADELPHIA, PA.

Tobacco Stems for Florists.

For Sale, packed in

bulks 200 to 250 lbs.

No Charge for deliver-

ing to depots.

PRICE:

\$10.00 per ton, \$1.50

per single bale.

ADDRESS

P. C. FULWEILER,

323 Arch Street, PHILADELPHIA, PA.

THE NURSERY BOOK

A Complete Hand-Book of Propagation and Pollination. By L. H. BAILEY, Editor of the American Gardener.

This valuable little manual has been compiled at great pains. The author has had unusual facilities for its preparation, having been aided by many experts in many directions. The book is absolutely devoid of theory and speculation. It has nothing to do with plant physiology, nor with any abstruse reasons of plant growth. It simply tells plainly and briefly what every one who sows a seed, makes a cutting, sets a graft, or crosses a flower wants to know. It is entirely new and original in method and matter. The cuts number almost 100, and are made especially for it, direct from nature. The book treats of all kinds of cultivated plants, fruits, vegetables, greenhouse plants, hardy herbs, ornamental trees and shrubs, forest trees.

Among the contents are the following:

PROPAGATION BY SEED.

PROPAGATION BY SEPARATION.

PROPAGATION BY LAYERS.

PROPAGATION BY POLLINATION.

THE NURSERY LIST is an alphabetical list of all kinds of plants, with a short statement telling which of the operations described in the first five chapters are employed in propagating them. **Over 2,000 Entries** are made in the list. The following entries will give an idea of the method:

ACER (MAPLE). *Sapindaceae*. Stocks are grown from stratified seeds, which should be sown in inch or two deep; or some species, as *A. dasycarpum*, come readily if seeds are simply sown as soon as ripe. Some cultural varieties are layered, but better plants are obtained by grafting. Varieties of native species are worked upon common or native stocks. The Japanese sorts are winter-worked upon imported *A. polymorphum* stocks, either by whip or veneer-grafting. Maples can also be budded in summer, and they grow readily from cuttings of both ripe and softwood.

PHYLOCACTUS, PHYLOCEREUS, DISOCACTUS (LEAF CACTUS). *Cactaceae*. Fresh seeds grow readily. Sow in rather sandy soil, which is well drained, and apply water as for common seeds. When the seedlings appear, remove to a light position. Cuttings from mature shoots, three to six inches in length, root readily in sharp sand. Give a temperature of about 60°, and apply only sufficient water to keep from flagging. If the cuttings are very juicy, they may be laid on dry sand for several days before planting.

GOOSEBERRY. Seeds, for the raising of new varieties should be sown as soon as well cured, in loamy or sandy soil, or they may be stratified and sown together with the sand in the spring. Cuttings, 6 to 8 inches long of the mature wood, inserted two-thirds their length, usually grow readily, especially if taken in August or September and stored during winter. Stronger plants are usually obtained by layers, and the English varieties are nearly always layered in this country. Mound-layering is usually employed, the English varieties being allowed to remain in layers two years, but the American varieties only one (Fig. 27). Layered plants are usually set in nursery rows for a year after removal from the stools. Green-layering during summer is sometimes practiced for new or rare varieties.

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A Problem.

An eastern subscriber sends us a communication in which he states that one of the wholesale commission dealers in cut flowers has added a design department and is doing practically a retail as well as a wholesale business. He contends that the dealer has a legal right to conduct a retail as well as a wholesale commission business, but questions his moral right to do so, and wants to know whether the readers of the FLORIST do not agree with him. He says:

"I might send to that firm pinks, roses and smilax to be sold on commission. They could, as they are now doing, take these flowers, make them up into any funeral design wanted, allow me what they pleased for the flowers sent, charge a less price for the design than I could make it for, and send it to my immediate vicinity, which would not only injure my trade but would I claim be to me a great wrong in taking my retail trade from me under the name of wholesale commission men. The retail florist as well as the grower is interested in this problem. If the men who receive flowers on commission to sell at wholesale to the retail trade run a cut flower store and make up designs the same as the ones who buy of them do, I think they would not be so very particular about the amount returned as sales."

Steam Heating.

I asked through your paper last fall how long a steam boiler could be left at night without attention. Last summer I had all my piping changed. I have now one 2-inch pipe running through the top of the greenhouse, up near the ridge, all the other 2-inch pipes are under the benches. My boiler is a large size surface burner. It is recommended to heat 55,000 to 82,500 cubic feet of space. I have now five houses heated by it, two rose houses, one 50x20 and the other 75x20; three small houses 50x11 feet each. I have the fire built from 8:30 to 9 p. m. and get up steam in about one half hour. Then I regulate or put on pipes enough for the night. I leave it before 10 o'clock p. m.; it then carries steam without more attention until about 7 a. m. next morning. It is trimmed with steam gauge, water gauge, cocks, safety valves, automatic damper, regulator, etc. It runs ten hours from the time the fire is built at night until it is rebuilt in the morning.

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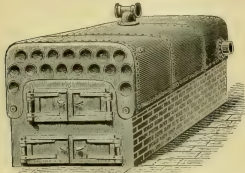
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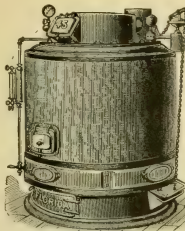
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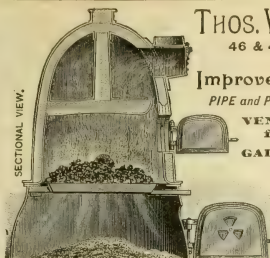
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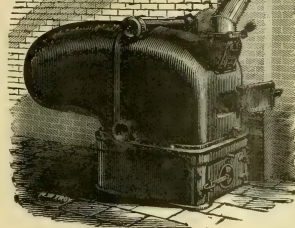
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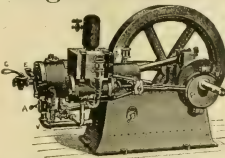
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Easter Number

The
**American
Florist**

march-19

1891

THE AMERICAN FLORIST

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PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

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54 La Salle Street, CHICAGO.

Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; WM. J. STEWART, 42 Bromfield St., Boston, Mass., secretary; M. A. RUST, Terre Haute Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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H. B. BEATTY, sec'y, Oil City, Pa.

American Chrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

OUR TITLE PAGE

How do you like the title page of this issue? We consider it not only strikingly beautiful and expressive of the season from the florist's standpoint, but a triumph of the engraver's and the printer's art.

The group of decorative and flowering plants was arranged and photographed specially for our title page and to our mind it most forcibly demonstrates the fact that nature herself furnishes by far the most effective and beautiful material for an ornamental design. How the product of the artist's brush or pencil pales before this simple, faithful reproduction of nature's own grace and beauty! Here art has simply brought together in an arrangement pleasing and grateful to the eye a few of the forms of beauty that boundless nature has so freely given us, and has exercised its true function in simply permitting nature to give full expression to her charms.

The arrangement of the group shown is worthy of a careful study. It is a beautiful exposition of true art in the arrangements of plants; to most effectively display the grace and beauty of each individual while combining all into an harmonious whole.

At the top are specimens of *Arcea Intescens* and a tall lily while just below appear a plant each of *Pandanus Vetchii* and *Kentia Fosteriana*; the two broad-leaved dracaenas are *D. fragrans*, each flanked by specimens of *Aranea excelsa*, while at the base appear blooming plants of genistas and heaths and small plants of *pandanus*. Back of the bunch of lilies in the center are blooming plants of the "Paris daisy."

WE PROMISED to make our Easter number the handsomest issue of the AMERICAN FLORIST ever published, and we believe you will agree with us that it is all that was promised. Each copy of this issue has been mailed in a separate wrapper to guard against possible injury in the mails and to avoid marring the beautiful title page with the printed address label.



Our Illustrations.

In this issue we present engravings of a large number of orchid flowers. All the sorts shown are not illustrated because of their value as cut flowers, for many of them are of no value for that purpose or are so high priced as to be beyond the reach of the commercial florist; they are shown merely to give to that large portion of our readers who have but little if any acquaintance with orchids, some idea of the wonderfully varied forms of these often exquisitely beautiful and again frequently strange, curious and fantastic productions of nature.

The colors of the flowers range from the most beautiful and pleasing shades imaginable to dull browns and even blacks and greens; in fact the shades of color are as varied and often as strange and surprising as the forms of the flowers.

In the groups of flowers of a single genera we have endeavored to show as many different forms of the type as possible from the material at hand, the illustrations being engraved mainly from colored plates issued with *Lindena*, a publication devoted exclusively to orchids. While we have been unable to reproduce the colors, the forms of the flowers and their markings are accurately shown, though all are more or less reduced in size.

As can be readily imagined the cost of so many beautifully executed engravings has been very considerable, but we feel assured that they will be so well appreciated by our readers as to fully repay us for the money and time expended.

Orchids for Cut Flowers.

The increasing demand for orchids as cut flowers induced us a few years ago to grow a number of winter flowering varieties; we find them but very little trouble and they occupy very little valuable space. In winter they do well suspended in a palm house from the roof and get only a daily syringing at the same time the palms get their watering. Few other plants would do well if orchids were suspended rather thickly over them, but palms will not show any ill effects as they require copious watering and syringing nearly every day in the year and are rather benefited by the little shade these suspended plants throw over them.

We grow most everything on blocks or in baskets to save bench room. Our cattleyas are all suspended, even those in pots; we lay a wire around the pot and attach three longer pieces twisted together at the upper end into a loop, and hang them up. Another advantage in suspending is that snails, wood lice and cockroaches, so destructive to all kinds of orchids in most houses, can not possibly reach the plants and we are never bothered with either of these pests on the suspended plants. In our practice we have found cattleyas to do best on apple wood with very little or no moss at all; strong roots from them one and a half feet long, hanging in bunches a way down below the block and these roots keep in a healthy condition, while potted plants will show more or less decayed roots in the pots or on the surface of the dressing. The treatment in summer is little different only more water is given.

I have an old sash house with plenty of woodwork in the roof and small sized glass, where I keep azaleas in winter. By the middle of May the azaleas are turned out doors and after cleaning the house thoroughly all cattleyas and other heat loving orchids are hung up in this structure, the glass is shaded with naptha and white lead and the plants are syringed once or twice a day, giving abundance of air in bright weather until the time arrives for the azaleas to go into winter quarters again. By this time the orchids will have finished their growth and are removed to the palm house again.

We also grow a lot of cypripediums, mostly *C. insigne*, but have to give them bench room. Among them are a few very good ones of the Chantini and albo-margium type, which we got accidentally two years ago in a lot of newly imported stock, one plant being identical with *C. insigne* Kimballianum, another is an extra large sized Chantini, much larger than the type. There were about 50 plants in the lot and no two of them are exactly alike, they all differ in some feature. I purchased them at the time from Mr. F. Mau, and it is a mystery to many of us how and why this particular importation should have been so varied, while others would not bring us any but the old common *insigne* or the *Sylhetensis*.

Another freak I have is a pure white *Saccolabium gigantum* in bloom now for the first time. I bought it for *gigantum*, and in habit and foliage it is not distinguishable from the type, at least I consider it a rarity, for I have never seen or heard of a pure white one before. Can some specialist give me a name for it? I should be very thankful.

J. B. KELLER.

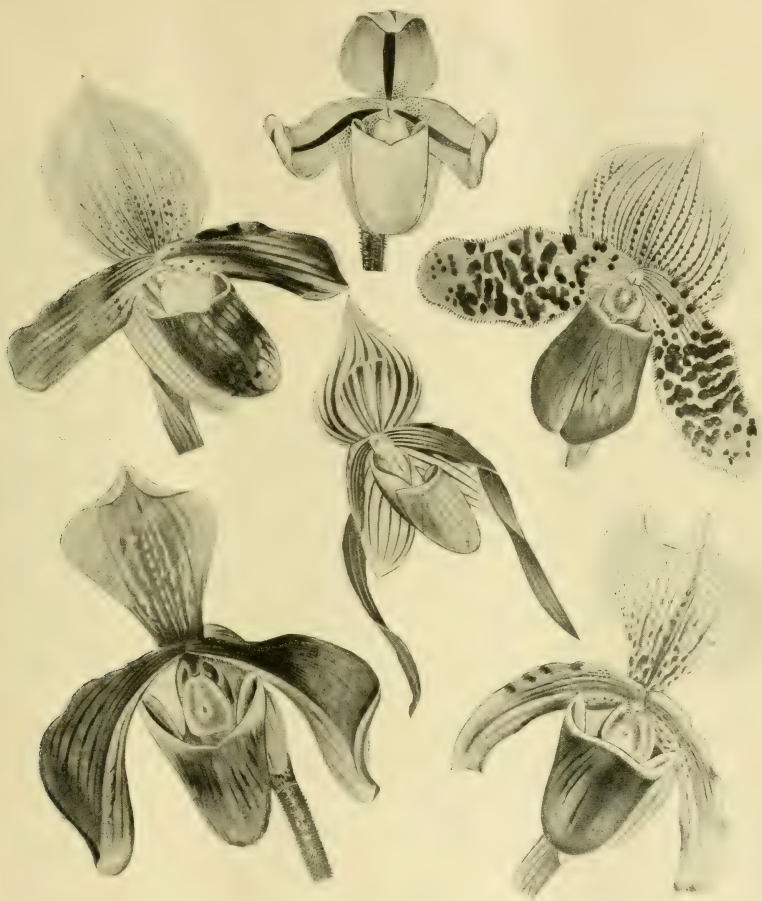
Another season of orchid experience is now here. I am often asked whether the orchid flowers are now popular on ordinary as well as extraordinary occasions; my answer to such inquiries invariably is that if I had four times the quantity I could have disposed of them this season at remunerative prices.

I am continually adding to my stock in the leading cut flower varieties of orchids and it seems the more I grow of them the less trouble I have in their cultivation and management. I know it will be a surprise to many when I say that I am cultivating four houses of them, each house 70 to 80 feet, with one young man and a boy, excepting in the potting season when two or three hands are added to the force so as to make a short job of it.

As soon as a crop of flowers is cut from a species the plants are carefully put in either a place to rest in a cooler house or put into stronger heat and more moisture according to their requirements. Those for rest are placed in the roof and ends of cool houses, "no water," the moisture from syringing plants in the house being enough to prevent shrivelling.

The resting of the orchid is the greatest secret in their cultivation. Many species that are considered hard to flow-r and grow by many people suffer much from too kind treatment when they should be entirely left alone in a cool temperature. This rule applies to *lilias*, *Odontoglossum grande*, *lilias*, *lilias*, many of the Mexican and South American orchids.

Dendrobium nobile and *D. Wardianum*, the two best varieties for cut flower trade, should be gradually rested from October 15 in a temperature of 45° to 50° with just enough moisture to prevent shrivelling. About the beginning of the year many of them will be showing flower

*C. Crossianum.**C. Villosum.*

CYPRIPEDIUMS.

*C. Druryi.**C. Cannartianum.**C. Moensianum.**C. Maeserclianum.*

buds all up the stem of the last season's growth and can then be safely put into a temperature of 65° to 75°, when in from twenty to twenty-five days they will be in a blaze of flower. My plan is then to keep them growing slowly till towards spring, when they are plentifully supplied with heat and moisture till growths are finished and bulbs firm; then water is gradually withheld till they are stored away to their needed rest; they can then

be taken into the warm house in batches of twenty or thirty at a time to suit the wants of the cultivator.

Odontoglossum Pescatorei and *O. crispum* are among the very finest and most useful orchids in cool cultivation. I grow them by the thousand in a cool house sunk well into the ground, roof steep so as to admit overhead almost the year round either resting or growing plants as occasion requires. I find the

house ventilates easier by having a steep roof and plants overhead make just the kind of shade the *odontogloss* like. The side benches are solid, being cemented on the natural soil; over the cement are racks made of 2-inch strips on which the pots stand; in the summer season water is plentifully used on the cement benches, which supplies plenty of moisture. I think this much preferable to stagnant water in tanks so often seen in horticult-

tural establishments. Fresh water evaporated two or three times a day makes a much better moisture than that from stagnant water.

Odontoglosses are now pushing their flower spikes freely and the plants should be carefully looked over every day and those that are showing flower spikes should be carefully picked out and given a little more elevation, warmth and light, care being taken that they are not exposed fully to the sun's rays. Place a little loose cotton at the base of the flower stalk to prevent insects getting up to devour the buds. These little attentions are the means of much of the success in the cultivation of this lovely tribe of orchids; on the other hand if left alone they will bring nothing but disappointment and discouragement to the owner. I have seen odontoglossum collections where they were permitted to take care of themselves show proof that the small snails and wood lice etc. had eaten up a great percentage of the crop, then of course the cry goes up: "Oh, they are hard to flower." Do not over-pot this class of plants; do not let them get water logged; do not let them get dry; do not keep them sopped with wet. Keep them cool and out of the draughts and every plant will repay for the care that should be given them.

Care should be exercised at this season not to overheat the orchid houses. Give air by bottom ventilation on all suitable occasions, also by top ventilation on every mild day, but avoid draughts if the air is cold.

Cattleyas are now in their glory of bloom and should have attention by shading, gentle ventilation and waterings, keep paths and benches moist by frequent waterings; tie out the bloom, place cotton loosely at base of bloom stock, look out for scale which must be carefully kept in check. I find frequent fumigation a great preventive of scale, as the male fly does not like the fumes of tobacco. My practice is to smoke the house always once a week, and often twice when the crop of any species of cattleya has been cut, not hecantly so smoke damages the flower but because the smell of tobacco fumes are objectionable when carried in the flower.

Cypripediums should now be carefully looked over to see that they have proper drainage and the sphagnum that has become decayed should be removed, the pot washed and fresh sphagnum that is in growing condition (by being kept out doors) should be used as material for repotting. I find I can grow the cypripediums faster and better with nice fresh sphagnum and plenty of drainage than by any other way. Shade sufficiently so that they are not exposed to the direct rays of the sun, keep up plenty of moisture and a temperature of 58° to 70° and the cypripedium will prove a very satisfactory and interesting orchid to grow and will well repay all the efforts given to make their cultivation successful. Strange as it may seem, the hybrid varieties are more vigorous than natural species; all are as a rule easily grown and are now a much admired class of plants; their lasting qualities too are much appreciated by all lovers of choice flowers.

WM. MATHEWS.

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Questions Answered by Mr. Thorpe.

[The answers given were in response to questions asked Mr. Thorpe after the reading of his essay before the Massachusetts Horticultural Society.]

What is known of the new early varieties offered by European growers? This is a matter of importance to those who have no greenhouse.

Mr. Thorpe replied that with one or two exceptions, the early flowering varieties raised in Europe have not given satisfaction owing to their being unable to withstand the excessive heat of our summer. It will be reasonable to expect a few of the many early varieties offered by Deleaux will succeed but how many will have to be proved; the moist and temperate climate of France and England where chrysanthemums do well out of doors is very different from ours. If we desire to succeed in raising a series of early flowering varieties to withstand the variations and vicissitudes of our climate, we must raise our own seedlings and save none but what stand the ordeal they are subjected to. In other words they must be to the manner born. Deleaux claims for his set that they will begin to flower as early as July 15; we have already several pompons that would flower by that date providing they could be made to grow. I think what we require is a series beginning to flower not earlier than September 1, having the characteristics mentioned by me in my essay. M. E. Nichols is a variety having some of these good points; it is a sturdy grower, it has thick leathery leaves, the flowers are of medium size, rather undecided in color; it flowered about October 5. Harvest Queen is a good white as is also Middle Lacroix, flowering about October 15; the flowers of the last two named are much better when grown under glass.

Which is the best early variety for market cut flowers?

Mr. Thorpe said that depended upon what color is desired. If white, Jessica; the best yellow, Rohallion, followed by Gloriosum five days later or about October 15; it is astonishing how much difference five days make.

In reply to a question as to what variety remained longest in perfection, Mr. Thorpe said that depended on the time of year. The duration of bloom varies from fifteen to twenty days. By judicious selection and special cultivation chrysanthemums can be had in bloom from January 1 to December 31. The blooms probably will not all be up to first-class grade as to form, size, color and quality, as when flowered in the autumn, but will possess enough good points to make them acceptable. For ten years I have never been without chrysanthemum flowers. We have but to remember they are heraceous plants which when they start to grow, keep on until they produce buds and flowers, and if grown naturally, seeds, which complete their work. Do not think much is gained by thus interfering with their natural time of flowering as we know,

strawberries are best in June, just as chrysanthemums are best in November.

Is it wise to award prize medals for new varieties upon exhibition of the first flowers, or better to defer awards until the superior character of the new plant has been established?

Mr. Thorpe replied that the first year his seedling Mrs. Cleveland flowered he thought it a capital prize; it was propagated and sold the following spring; when it flowered the second year instead of proving itself a gem of the first water, it came down as low as third class. Yes, seedlings should always be tested more than one season and no prize be awarded to any until its superiority in character and habit is fully established. He said also that it is unwise for a grower to offer to the public any new plant or flower until its merits are shown to be greater than existing kinds, especially when varieties are so numerous and in many cases so excellent.

Is there any remedy that will kill the little hopper insect that so injures the plants out of doors during summer?

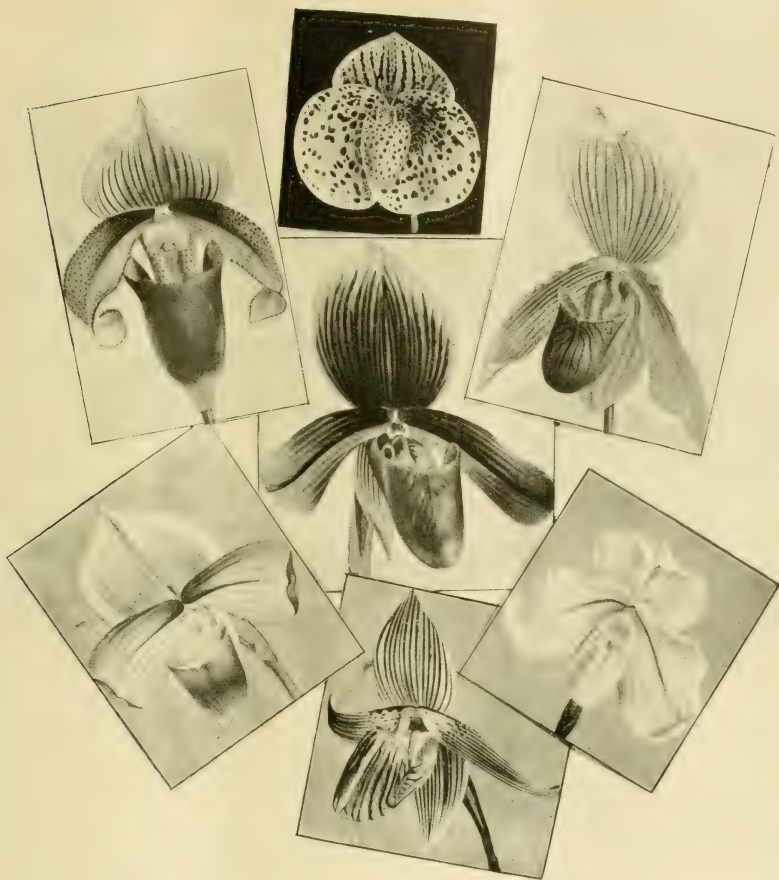
Mr. Thorpe said that Prof. E. V. Riley of the department of agriculture at Washington, D. C., had taken a great deal of interest in the investigation of the enemy which attacks not only chrysanthemums but the asters, golden rod, and other composites. The female stings the stem of the plants to deposit her eggs, causing a disorganization of the sap which is shown by numerous excrescences. As a preventive the best remedy I know is a solution of one ounce of bitter aloes in four gallons of water and to syringe the plants with it twice a week from July 1, to the middle of August.

If one desires to grow plants in the open ground to be shifted into pots for late blooming in the house, it is necessary such varieties should be those having compact habits, bright clean healthy foliage, those that do not suffer from the attack of either white mildew or black rust. This black rust is a peronospora closely allied to potato fungus. Ada Spaulding, H. E. Widener and Violet Rose, are kinds having many good and desirable qualities as mentioned before.

There are many of the finest old style incurved flowers, which have representatives in Queen of England, Mrs. Shipman and Princess of Wales, that do not do at all well here, whereas in England they are most popular and give great satisfaction. I have yet to see a really first-class dozen of these kinds in America. They have suitable conditions to make perfect flowers of these varieties that we have not here, and it must be the climate as we have as much skill and as good appliances as any country has.

The question was asked if there had been 24 Chinese incurved flowers shown in America that would rank in England as first-class? Mr. Thorpe did not believe there had been 24 flowers shown in one stand that would rank as second or scarcely third class. In regard to specimen plants of the old incurved kinds he said they were not equal in quality to the cut flowers. That famous variety, Mrs. Runtle and her two sports, always appear in competitive groups; in six varieties there are generally two out of three Runtles, and in nine or more varieties it is almost a certainty that all are shown.

A question was asked where the best twelve Japanese varieties originated: Japan, America, France or England? Mr. Thorpe replied that at this date



CYPRIPEDIUMS

*C. Curtisi.**C. Bellatulum.**C. Arthurianum* var. *pallidum.**C. Van Houtteanum.**C. Harrisianum* var. *superbum.**C. Elliottianum.**C. Microchilum.*

probably the best twelve were direct importations from Japan, but by next year or the year after at the most, twenty-four American raised seedlings will be in cultivation that will beat twenty-four from any other country, from the fact of there being so many engaged in raising seedlings and also from the fact that the standard of requirements has been raised. There are now a great many seedlings on probation; if they prove to be as good as when seen last season they will give us these additional good varieties.

What are the very best late kinds to have in flower at Christmas?

Mrs. Humphreys, Ethel, Mrs. H. J. Jones and Governor of Guernsey are ordinarily late flowering kinds. But it depends a great deal upon the manipulation. If the plants are allowed to become very dry in August and the wood ripens they will flower the middle of November, but if they are kept growing and the wood remains soft several weeks later, they will then flower in December. It is not a question so much as to when the

cuttings are taken as it is how continuously they are kept growing after they are rooted, up to say eight weeks before they are required to be in flower; perhaps it would be better to take cuttings later rather than very early of late flowering kinds.

In reply to a question as to the best six varieties for market cut flowers, Mr. Thorpe said he would not attempt that. He would prefer to name one hundred and did name fifty and more, and would leave the select choice to his ques-



VIEW IN ONE OF MR. WM. MATHEWS' ORCHID HOUSES CATTLEYS IN THE FOREGROUND.

tioner who would doubtless want them coming into the market from September 1, to January 1, consisting of all the popular colors such as yellow, white, pink, bronze and red and also a few fancy or parti-colored varieties; then as has been observed chrysanthemum flowers last about fifteen days. From the first of September to the first of January is four months or 120 days so it would take eight varieties of one color to cover the time; therefore it will be seen that at least thirty to forty kinds are required to fill the bill. Mr. Thorpe gave the following list of Japanese types as being of great merit, from Japan direct: W. H. Lincoln, Volunteer, Lillian B. Bird, Mrs. Alphens Hardy, Louis Boelmer, Kioto, Mr. H. Cannell, Christmas Eve, E. G. Hill, Comte de Germiny, G. F. Moseman and Robert Bottomley. Twelve American varieties: Violet Rose, Mrs. M. J. Thomas, Minnie Wanamaker, Harry E. Widener, Ada Spaulding, Carrie Denny, G. P. Rawson, Excellent, Mandus, Miss Mary Wheeler, Mrs. Bowen and Cyclone. Twelve varieties raised in France: Belle Paule, Ceres, Etiole de Lyon, Margot, Incomparable, M. Bernard, Roi Japonais, Mme C. Audigier, Boule d'or, Aleyon, Jeanne Deleaux and Valle d'Andarre. The best twelve English varieties: Elaine, Eynsford White, Sunflower, Martha Harding, Joseph Mahood, Fair Maid of

Guernsey, Carew Underwood, James Salter, Mrs. T. Jamieson, Stanstead Surprise, William Robinson and Mr. Mathews.

In reply to a question as to the possibility of producing a blue chrysanthemum, Mr. Thorpe replied that a blue chrysanthemum was exhibited at Philadelphia but unfortunately it was made of paper. However he fully believed we would live to see a genuine blue chrysanthemum. The old botanists declared that we could not have blue, yellow and red in the same species of plant, but we have blue, yellow and red hyacinths and he saw no good reason why we should not get the same colors in the chrysanthemum. How limited were the original colors of the chrysanthemum flower. "They were a pale yellow, white and a very weak lilac shade, and from these have been elaborated all the colors and shades we now enjoy in this flower. This has been accomplished by very slow and persistent work in selection and cross fertilization and in the finding of sports. Notice how intensified have become the yellows and how many shades there are. The lilac has become pink of pure shading; then as to red, Cullingfordii often times when the flowers are closely shaded presents us with nearly a pure tone of red. The most pronounced purple we have to-day is from the lightly tinted incurred Princess of Wales, being

a "sport" named Violet Tomlin; it is really purple. Now we cannot get purple without blue, and to those who are hard at work in the field of development, a blue chrysanthemum would not be such a great surprise. Raisers of seedlings frequently see signs of a new departure four or five years before it actually takes place. The blue chrysanthemum may first be obtained from a sport.

In reply to another question Mr. Thorpe said he did not believe the constitution of the chrysanthemum had been impaired by continual cross fertilization. On the other hand, the American raised seedlings of the past three years have decidedly more vigorous habits than those of years previous. Raisers of seedlings have now got to that point where they throw away all weakly seedlings, unless they have some new features which are desirable to develop in future generations. When his seedlings are about four months old, being generally then in 3-inch pots, he discards all plants of puny growth and constitutional weakness, thus doing away with all the bother of and often the temptation to keep a weakling when in flower.

Is the degeneracy of plants inherent in them or is it the result of the treatment they receive at the hands of the grower? Mr. Thorpe believed that all plants, just like ourselves, have a natural period of existence, providing always that they



ODONTOGLOSSUMS

- | | | |
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| 1. <i>O. Vexillarium</i> var. <i>purpureum</i> . | 2. <i>O. Rossi</i> var. <i>Mommianum</i> . | 3. <i>O. Wilckeanum</i> <i>Albens</i> . |
| 4. <i>O. Warocqueanum</i> . | 5. <i>O. Uro Skinneri</i> . | 6. <i>O. Harryanum</i> . |
| 8. <i>O. Halli</i> var. <i>Lindeni</i> . | 9. <i>O. Radiatum</i> . | 10. <i>O. Grande</i> . |
| | | 11. <i>O. Nevadense</i> . |

are surrounded with a natural environment. The chrysanthemum is an herbaceous plant fulfilling the purpose of its being is one year's growth, and its constitution is generally not only equal to its needs, but somewhat in excess; this enables us to multiply plants by cuttings

which is simply an extension of the life of the parent plant and not a complete renewal of it as in propagation by seeds. Plants not raised in America, and propagated only by cuttings must have all the weakness of the original stock, with a short prospective existence. These re-

marks apply to plants that shall be used as garden plants, where no artificial protection is given than is afforded a geranium or other summer flowering plants. On the other hand in the raising of American seedlings for a given purpose, as for instance a thoroughly reliable race of



ARRANGEMENT OF FLOWERS IN BOXES

garden plants, if at any time during May five hundred seedlings are planted in the open ground, to which is given fairly good cultivation, there will come a time when some of these plants begin to weaken, that is they make no progress, and as the trying summer lengthens many others will drop behind until probably at the end of September, your five hundred seedlings have a representation of fifty healthy and vigorous plants only. It is these fifty then that have the constitution and the vigor you desire to propagate. I have often said that we ought to raise American plants for American gardens; a great many of the European novelties of all the plants are failures here. It is not that they are worthless but because the conditions they are subjected to is not to their liking.

Mr. Thorpe said his experience had afforded him such positive proof as to the growth of chrysanthemums that he believes when cuttings are taken at a fairly early time it makes no difference whether from a strong plant or a weak one provided always that they are properly treated afterwards. A cutting no thicker than a knitting needle if well cared for from the start should be as strong at two months later date as one that was originally as large as a pencil. Some believe that permitting a plant to produce only a few flowers tends to strengthen the plant; the fact is it costs the plant less effort to elaborate one flower, than it does fifty. If a plant is allowed to carry all its flowers without disbudbing what a task it has! A single shoot of some varieties has as many as forty buds formed and when we consider that each flower when open carries from 140 to 150 florets, the strain on the plant is a very severe one.

YOU CAN NOT afford to take any chances on your spring advertising. The only way to reach the whole trade is through the AMERICAN FLORIST.

Notes on the Arrangement of Flowers in Boxes.

One of the most important things in putting up a box of flowers, is to have the box. Several years ago I knew of old shoe boxes being used; one of the more enterprising firms that used them, had labels printed, and when the boys had nothing else to do, not even tooth picks to stem, they could paste these labels on the tops of the boxes, leaving the picture of the shoe on the ends; some other firms that used shoe boxes thought that labels were a useless extravagance, so did without them.

We find constant use for eleven different sizes of cut flower boxes, and shall add several more for Easter. Six of the boxes we have in two styles. These eleven sizes do not include pillow, cross, wreath or bouquet boxes.

Every morning as soon as the fresh flowers come in, we select the flowers that have been ordered by name; if these flowers are to be delivered in the morning, they are picked out and the one that is to pack them can determine what size box is best to use, always selecting one that will accommodate the longest stems with out bending; and it is quite as bad to put flowers in a box that is too large, as in one that is too small; in the former case many of the roses are apt to break off their stems or get badly bruised by moving in the box. If the flowers are not to be delivered until the afternoon, they are selected and put in vases and put on the top shelf "in the vault;" in this way we are sure that our customers will get the varieties they want and that they will be of good quality; these flowers are never used for any other purpose unless we are sure that we can duplicate them in time for the order.

Many of our customers prefer to leave the selection of the flowers entirely to us, simply naming a price; this practice we try to encourage for several reasons;

always, however, endeavoring to ascertain for what purpose the flowers are to be used; if for a person that is sick, we avoid using any that are very fragrant, but rather bright and well chosen colors. If they are going to a lady that we know to be a judge, we are careful to select specimen flowers, and if we have any thing very rare, give it a prominent place in the box; then other customers prefer quantity to quality, these also we try to accommodate.

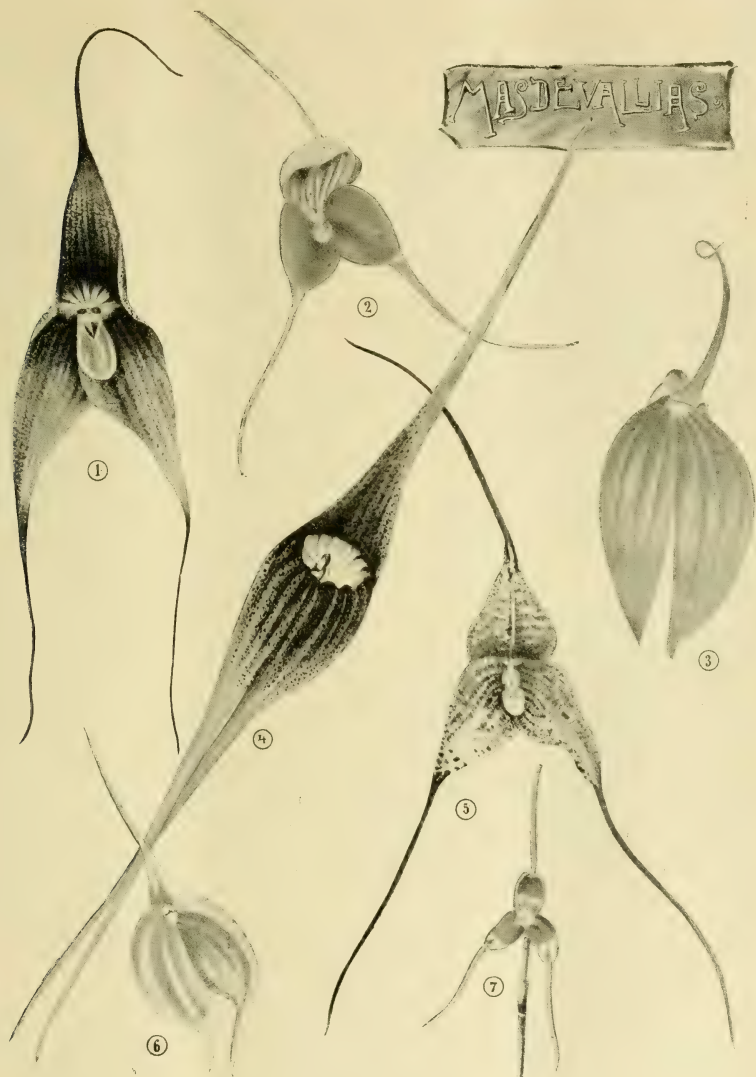
In many cases we know that society women have strong likes and dislikes; this one is partial to violets and valley, this one to hybrids, this one "detests La France," that one has told us never to use smilax in anything that we send to her; "all the maiden hair fern that you want to, but no smilax;" these points we try to remember.

Another thing we consider in selecting "cut flowers," is that they may look well in the box; for instance, in picking out a choice lot, we first select the long stemmed ones, then the shorter, and finally the shortest, color always playing an important part; then as they lay on the shelf or in the pan, the one that packs them has a suggestion of how to do it, and can readily determine the size box to use.

If the flowers are particularly fine, he will use one of the special boxes (as illustrated). These boxes are made out of very rough card board, with a double bottom so that the moisture will not spoil them, lined with waxed paper, (as we do all of our boxes) tied with red tape and sealed with red wax, making a very stylish package.

The sealing has been appreciated by many customers, as it insures the safety of the note or card and gives the pleasure of opening the box, to the one for whom it was intended. Many also know that only our best flowers go into these boxes.

After the flowers have been arranged, if the colors are dark, we often sprinkle a few white violets, or light pansies over

1. *M. Spectrum*.2. *M. Shuttleworthii*.3. *M. Lindeni* var. *grandiflora*.4. *M. Macrura*.5. *M. Rozzli*.6. *M. Tovarensis*.7. *M. Estradae*.

the top, or if the effect is light, we use purple violets or pansies (not blue), and then draw a veil of maiden hair fern or asparagus.

It is often well when one color predominates to put in just a touch of its complimentary color; for instance, a handsome box of violets and valley, if you had a little piece of acaenia, to curve on the top, as a bit of color, it would be beautiful, and the curved line that you naturally could get would be pleasing; this combination would give pleasure to any person of refined taste; some would know why, others would think only of the effect.

H. H. BATTLES.

Watering and Ventilation.

[Read by George Corbett before the Cincinnati Florist's Society, January 19, 1897.]

Gentlemen of the Cincinnati Florist's Society. At your request I will give you my experience on watering and ventilation. It may be of some benefit to the beginner.

No operation in the greenhouse requires more care and good judgment than watering; and proper attention to this matter is frequently the key note to success. There is really no fixed rule that can be given that will properly apply to the various plants growing under quite different circumstances, so it is at once apparent that watering should be entrusted only to a man who is thoroughly experienced and possessed of excellent judgment. It must be borne in mind that injury is done not only by all-wrong plants to become too dry, but also by giving water when not required.

Speaking now of roses planted out on benches, in the winter months we endeavor to keep the soil a little on the dry side, as the soil is thereby kept sweet and the roots in a healthy condition, but as the sun grows strong and evaporation more rapid, great care must be taken to prevent wilting, which will greatly lessen the size and deepen the color of the flowers. The most successful florists in the country today are those who give close attention to watering. I venture the assertion that more roses are ruined by indiscriminate watering than from any other cause.

Solid beds should be watered with the fact thoroughly understood that they are vastly different from raised benches. In fact the difference in value of the two systems depends almost entirely on the care in watering.

I prefer the raised benches for the reason that the beds are less liable to become oversaturated by careless watering, and again the quicker drainage and evaporation of the benches allow us to give more frequent syringings than would be safe with solid beds. We all know the syringe is the best means of keeping down the red spider.

The nature of the soil in which the roses are growing will govern watering to some extent. The side benches with several rows of pipe underneath will require the most water and the most careful attention. The soil will dry at the bottom of the bench first because of severe firing and the syringing is very liable to deceive the grower by keeping the surface moist, while the roots at the bottom of the bench are suffering. We use a trowel and examine the border to the bottom. In the short days of winter we never walk into a rose house and commence to water until we first make an examination of the soil and see just where the benches require water. When the soil becomes solid and would readily pass through a coarse screen then we

consider it time to apply water and not again until the soil requires it.

It is best in using the hose to run the water slow enough to give time to water the dry places only and keep clear of places where water would be injurious. Avoid watering to such an extent that the substance of the soil is carried through the bottom of the bench, but give enough to show through.

We all admit that mildew is generally caused by a cold draught and bad ventilation, but over wet and over dry benches will produce the same result. I don't believe in using water in winter any colder than the temperature of the rose house. We use water from a tower elevated about 25 feet and kept warm by a small flow and return pipe, passing down and into a furnace. This answers the purpose splendidly.

Watering and syringing is done early in the day so that the foliage is well dried off before night sets in. Never be caught with foliage wet on a cold night. To create a moist atmosphere we use evaporating pans filled with tobacco water which keeps green fly in check and also red spider.

Probably the most dangerous kind of watering for the inexperienced to trifle with is manure watering. We never use any until the days lengthen and the soil becomes exhausted and the plants are in good working condition to use it.

VENTILATION.

We have a portion of our roses growing under glass where we used zinc joints in the glazing, at the laps also some houses without the joints. This I can assure you has a great deal to do with the ventilation in severe weather, when very little can be given. A house where the joints are used is almost air tight, so there is no continual circulation of air coming in through the laps of the glass like there is in a house where they are not used. In the tight houses we generally give a crack of ventilation in severe weather, just enough to change the atmosphere, but where the joints are not used, the laps of the glass give sufficient in severe weather.

In a tight house more care is required in the fall before firing commences. A small crack of ventilation should be left on all night for if there is the least amount of moisture around at night it will condense and a heavy dew settle over the foliage, which means a bad crop of fungus in the near future. This does not occur to such an extent if the house is not a tight one.

September and October care in ventilation is more especially required, just before firing commences in earnest. At this period mildew often makes its appearance. We fire very early in the fall, just enough to create a circulation of air and prevent the dew from settling over the plants.

I may claim that mildew never troubles our roses and I think very little would be seen anywhere if a few essential points in ventilation were considered. Be sure you ventilate on the right side, and not against the wind. Give very little at first and increase afterwards. Don't neglect to close up in time; better to reduce a little, rather than close up all at once.

I don't believe that a plant house should be perfectly air tight at any time, any more than a sleeping room should be. A very important point is to cool the pipes off quick in the morning after severe firing, when we are sure of a bright day. It is just as necessary to cool the water off quick as it is sometimes to warm it up quick.

Those who use steam certainly have the advantage in cooling down quick and are not compelled to ventilate so early on a cold morning. In all our glazing now we are using the zinc joints and like our neighbor florists here believe them to be a great saving to us in fuel and glass.

Answers to Questions.

The following questions are asked by a retail florist and answered by Mr. Wm. Falconer:

"Where can I buy the true *Elaeagnus longipes*?" Thomas Mechan & Son, Germantown, Philadelphia, and several others.

"The Trifoliate orange is presented as being very meritorious. What about its hardness and merits?" In sheltered places it is hardy about New York. Its flowers are white, fragrant and in bloom about or after the middle of May. The plant has strong spines and small somewhat sparse leaves. It has fruited nicely at Flushing, L. I., but we require to test it further before saying much about it.

"When should we sow seeds of *Pennisetum longistylum*?" For use for summer outdoor gardening sow at once—February or March—in the greenhouse, and grow on the plants in pots till planting out time in May.

"What is the cause of the poisoning from *Primula obconica*? Is there any preventive thereof?" The late Dr. George Thurber, who made a microscopic examination of the plant, was inclined to attribute it to the jointed hairs with which the leaves and other parts of the plant are so thickly beset, breaking off and entering the skin and causing the irritation. There is no preventive except don't touch the plants; at the same time some people can handle them with impunity.

"Is there any danger of loss in transplanting European beech trees or risk that they will not do well here?" The European beech does well here, witness the many fine specimens of purple and weeping beeches to be seen in so many gardens and which are varieties of the European species. And they can be transplanted with perfect safety providing they are very carefully handled, their roots well preserved and kept moist and their tops cut well back.

"What is the best variety of climbing hydrangea?" There is only one in general cultivation, namely *H. scandens*. It is illustrated in the *FLORIST*, page 567, Aug. 1, 1888. The other plant sometimes confounded with this is *Schizophragma hydrangeoides* which is very much like the climbing hydrangea, but barely as pretty when in bloom. Indeed many of the plants in the trade sold as *Schizophragma* are only *hydrangea*, for some years ago when these Japanese vines were introduced the name *Schizophragma* was the one applied to the *hydrangea*, and they have been mixed up together ever since. But both are perfectly hardy and well worth growing.

"Can iris seeds be planted in early spring?" Certainly. Tufted irises like the Siberian and Kiepmper's can be transplanted at any time; surface rhizomatous sorts like the German and crested can very well be planted in early spring, but it is better to plant bulbous irises as *Ir. reticulata* and English and Spanish irises in fall.

IF YOU LIKE THE AMERICAN FLORIST give it your fullest support by confining your orders to those who advertise in its columns and mention the paper when ordering.



1. *C. Chocoensis* var. Miss Nilsson.
4. *C. Schilleriana* var. Amuliana.

CATLEYAS
2. *C. aurea*.

3. *C. Mossiae* var. Warocqueana.
5. *C. Warneri*.

Something New.

The Florists' convention to be held at Toronto next August promises to be the most practical, interesting and useful that has yet taken place, and it becomes every florist in the country to add to this interest. The Executive Committee have provided an excellent program, and they together with the local committee have

made admirable arrangements for the holding of the convention, and now comes the Nomenclature Committee with, I hope, a glad surprise for you all.

The synonymy of the names of plants was so thoroughly gone into by the several sub-committees last year, that I find very little fresh material in this field, and hunting the rascals up is a harassing and disagreeable job, it is so hard to get

convincing proof against them, at the same time some ugly facts are accumulating. But we find the question of NEW PLANTS of very great interest indeed. The people want to know what plants are new and if these new plants, as they severally have got them, are true to name. Now as we as a committee are scattered over a thousand miles of country and cannot very well get together often to

examine these new plants and compare them with old varieties and pass an opinion upon their names, one of my colleagues suggested to me the advisability of asking our vice-president, Mr. John Chambers, the superintendent of Public Parks, Toronto, if he would grow and test any new plant or plants whose identity is in dispute, that the florists of the country would send to him for this purpose, and if he would so consent, then invite the florists to send such plants to him.

Acting on this suggestion I wrote to Mr. Chambers who kindly replied as follows: "I entirely agree with your views on the matter and will only be too glad to undertake what you have suggested. It would be interesting work for me and would undoubtedly prove to be of great value to our brother gardeners and florists. Anything you may have or know of anybody having, if you will send it to me it shall have the best of care. I will appoint one of my young men to take charge of the same, and will also give it my personal supervision."

Now brother florists this is an exceedingly valuable opportunity for you. If you have a new or uncommon variety of geranium, coleus, begonia, canna, dahlia, rose, carnation, fuchsia, or anything else send it to Mr. Chambers and he will plant it out or keep it indoors as will be best for the plant, and then when the convention meets there in August not only will have the Nomenclature Committee in full have an opportunity of examining and noting these plants, but the plants shall be right there, established and growing under the eye and criticism of every member who attends the meeting. They will not be special plants grown and primped up for the occasion, but matter of fact material. And if you have what you think is a misnamed plant send it there, and let Mr. Chambers grow it and the committee pass upon it.

One of the great advantages of these tests will be the fact that Mr. Chambers is an absolutely disinterested party; he is the Superintendent of Parks of the city of Toronto, and not in any way interested in the florist business commercially; and he has both ample greenhouse and outdoor accommodation for these tests right beside the hall in which the convention is to be held.

If you will cheerfully respond to this generous invitation extended to you by Mr. Chambers, you will add a new and intensely interesting feature to our conventions and have the biggest possible kind of an advertisement for yourself.

WM. FALCONER.

Chairman S. A. F. Committee on Nomenclature.

Lilium Wallichianum Superbum.

The introduction of this superb lily will again call attention to that group of Indian lilies, of which *Nepalense*, *Nelgerhense* and *Philippense* are representatives. It is well known to cultivators of lilies that the members of this Indian group have always been difficult to manage, the trouble being that they are very excitable, delicate in growth and make but few roots. From information I have just received it is evident that *Wallichianum* superbum has none of the weaknesses of its relatives. When a plant grows six feet high and carries eleven flowers and requires scarcely any support, it certainly is a vigorous and different plant to the ordinary run of Indian lilies.

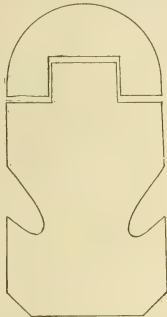
It must be borne in mind that this group will not stand rough treatment;

they must have the protection of a greenhouse from September to May. If *Wallichianum* superbum ever gets cheap enough for florists to grow in quantity, what a magnificent Easter lily it will be. The coloring of its immense trumpet shaped flowers is most beautiful, a rich golden yellow and white inside, bronzy brown and white on the outside. The type of *Wallichianum* was introduced to England in 1850.

JOHN THORPE.

Butted Glass in Glazing.

Here is an engraving from the drawing sent us by Mr. H. Dale, showing the wooden cap used to hold the glass in place.



A description of his method of using appeared on page 524 of March 5th issue.

The Cut Worm.

Will you kindly tell me of some remedy for the cut worm (I think it is). It has got in among the smilax and at night eats off all the young shoots and leaves as fast as they appear. Some nights we pick off hundreds of the pests. It is like a caterpillar and burrows at the roots of the plants. Does this pest also attack roses or other plants? The sod I use is from an old pasture and is fine for roses. I think the eggs must have been in the soil, although the worms did not appear until a few weeks ago.

MAC.

In reply to your correspondent "Mac" the insect that is giving him so much trouble is what is commonly known as the cut worm (*Agrotis segetum*). It belongs to a family rather noted for its destructiveness to growing crops.

They are very difficult to exterminate; perhaps the best way is to destroy the moths as soon as they can be seen, which is generally early in the summer. In Mac's case I would advise him to lay a few old boards loosely together and as soon as the moths are hatched out they will hide between these during the day, where with a little care they can all be destroyed as fast as they collect. This will prevent their depositing their eggs for next season's crop. With his present crop he will continue to have considerable trouble and his main chance against them is careful hand picking every evening after dark. If he can procure fresh soil from chimneys where bituminous coal is used, a liberal sprinkling of it over the base of the plants will help to prevent their eating so much of it and at the same time make the soil around the

plants distasteful to the pest. If a few green leaves such as cabbage, turnip or lettuce are spread around they will generally collect in numbers under them and are thereby more readily caught.

We have tried many so-called remedies for this troublesome pest but have not yet found one that will wholly destroy them without at the same time destroying the plants, as they bury under the soil during the day. The moth of this insect is easily distinguished, being of a dark gray color, rather heavy and a poor flyer by sun light; hence if the boards above referred to are turned over during the day the moths can be readily caught and destroyed.

This pest does not usually do much damage to roses as they prefer to locate their eggs where there is some shelter nearly or quite on the surface of the soil, and as roses do not as a rule offer such protection the moths (fortunately) avoid them and go for such crops as smilax; but if a batch of their eggs should happen to get into the soil during the summer they would make short work of the young roses in fall and early winter.

J. N. MAY.

Coming Exhibitions.

March 25-26, Montreal.—Spring exhibition Montreal Gardeners' and Florists' Club.

March 31-April 3, Boston.—Spring exhibition Mass. Hort. Society.

April 7-11, New York.—Spring exhibition New York Florists' Club.

April 14, Los Angeles, Cal.—Rose show Southern California Floral Society.

April 16-17, Syracuse, N. Y.—Spring exhibition Central New York Hort. Society.

April 22-23, Baltimore.—Spring show Gardeners' Club of Baltimore.

May 6-8, San Francisco.—Annual flower show California State Floral Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

Shipping Cut Flowers.

Will some experienced wholesale commission dealer in cut flowers give us the best method of handling cut flowers, giving full and complete directions for packing and shipping so that they will arrive in the best possible condition. Let us hear all about it through the columns of the FLORIST.

S.

[The subject has been touched upon several times in these columns but there is a great deal more that may be said and we hope the request of our correspondent will be complied with. It would be well to start with directions for cutting the flowers, for after care is largely thrown away unless the flowers are cut at the proper stage of development.—Ed.]



ONCIDIUMS

1. *O. Jonesianum*. 2. *O. Phalaenopsis*. 3. *O. Orthotis*. 4. *O. Iridifolium*. 5. *O. Cucullatum*.
6. *O. Papilio* var. *majus*. 7. *O. Lanceanum* var. *superbum*. 8. *O. Macranthum*.

A Good White Daisy.

A new white daisy of extra large size (from $1\frac{1}{4}$ to $1\frac{1}{2}$ inches across) sells exceedingly well with us in bunches for street wear or for boutonieres. We are selling the entire cut from Mr. F. Schneider in Attica, since fall, and cannot always supply the demand. The long stout stems and extra large size of the flowers is a peculiarity of this variety. We got it under the name of "Snow-flake", and probably it is not identical with "Snowball" of the Longfellow type, the flowers being uniformly of an extra size under the most ordinary treatment and never showing a yellow center. Its last-

ing qualities cannot be excelled by any other flower, for we have kept some fresh for over three weeks. Even after being exposed to dry heat without water and wilted down completely, if sprinkled and the stems placed in water, after an hour's time they will look as fresh and plump as ever and last for weeks in that condition. Whether daisy flowers will become universal favorites for wearing remains to be seen, but even if not, this variety should be grown more for forcing, as the flowers will be very useful to retail florists for making up funeral pieces, etc. The size of the flower and the purity of the color will at once recommend it to everybody.

J. B. KELLER.

Harrisii and Callas.

Will you kindly give me information as to the following matter:

I have *Lilium Harrisii* that will bloom for Easter. Will they flower again this winter? If so, how should they be treated to produce second crop? Will the bulbs be exhausted to the extent that it will not pay to keep over to force next season.

When callas are through blooming, which is the better way: To leave them in pots and keep dry, or remove bulbs, shake off dirt, and keep bulbs absolutely dry?

In starting up in the fall, after repot-

ting, is it advisable to place on bench at once to grow or treat as other bulbs, and keep dormant, until root growth is well established? ENQUIRER.

LILUM HARRIS.—Being of a somewhat evergreen nature, if you keep them moist and well fed after they have done blooming they may make some fresh growths which will bloom in summer or fall, but it isn't certain or desirable. Better keep them growing for a while then dry them off and completely rest them. They can be forced year after year, but it isn't well to depend on these bulbs for early flowers or paying crops.

CALLAS.—Better dry them off in their pots. As soon as they are repotted, stand the pots on the ground outside till they begin to root freely; or stand them on benches in the greenhouse but don't force them. Let them root well and start slowly at first. W. F.

Crotons.

After a period of comparative neglect there now appears a certain degree of interest in the notably handsome group of foliage plants commonly known under the above title.

This title however is not now admitted to be correct by the leading authorities on nomenclature, the genus being referred to *Codiaeum*, and in the course of a few years the latter name will probably displace the now familiar croton.

But it is not proposed in these brief notes to discuss the nomenclature of these plants, but rather to mention some of the uses to which they may be put, this being of more interest to the average florist than the above, though the correct naming of plants is also an important topic.

During the past two or three years the availability of crotons as bedding plants has been more or less discussed, and their highly ornamental character under such conditions has been proved, among the notable examples of this kind of bedding having been some large circular beds in Fairmount Park, Philadelphia.

These beds, situated near the southeast end of Horticultural Hall have been filled during the past three seasons with a mass of many colored crotons, the bright coloring and luxuriant growth of which coupled with the novelty of the display has attracted much attention from plant-lovers.

The soil does not undergo any special preparation in this instance, any more than is given to the other flower-beds, nor is this necessary, the most essential condition being a warm summer, while an additional advantage will be found in having a well-drained bed, for when placed in a low or boggy location success may not be so complete.

The crotons are planted out in this latitude about the last week in May or first week of June, the time of course depending on the condition of the weather, and in the autumn are lifted before frost touches them.

They root very freely when planted under congenial circumstances, and consequently may be readily lifted without suffering greatly from the removal, the best plan being to cut them back quite hard at this time, and the pot them in as small pots as the roots will admit, after which they should be placed in a warm house and syringed regularly in order to induce them to break again.

It may be added that strong plants as well as strong-growing sorts should only be used for bedding, good plants from

4, 5 or 6-inch pots being preferable, while still larger ones may be used to considerable advantage in large beds, and in order that the plants shall be in good condition to stand the change they should be hardened off in a well-ventilated house some time beforehand, for if they were brought out of a close, warm house and planted in full exposure they would probably lose much of their foliage.

Regarding the propagation of these plants it may be said that cuttings may be put in at any season with reasonable success, providing they be placed on brisk bottom heat, but early in the spring is the best period for this operation, as the young plants will grow on more rapidly at that time than at any other.

Another instance in which crotons were bedded out with very happy effect was noted during the past summer in this vicinity, though in this case these plants did not comprise the entire contents of the bed, the arrangement of which was as follows, the shape being an oval:

In the centre were a few clumps of dwarf French cannas, these being surrounded with an irregular row of *Eulalia Japonica* var. *Ficus elastica* and some *Pandanus Veitchii*, these in turn being encircled by a mass of crotons carelessly arranged, and to complete the whole a border of *Acalypha musaica* was added.

The various forms and colors thus represented made a very pleasing combination and provoked much favorable comment.

But this is not the only use to which crotons are adapted, for beside being extremely effective as exhibition plants they are also valuable for vases, window boxes, and in well-colored small plants they may be used to advantage for mantel decoration and also for dinner-tables, and to keep the colors bright it should be remembered that plenty of light is necessary.

As to varieties there is an embarrassment of good material now catalogued but the following are among the most satisfactory and are chiefly sorts that are readily procured.

C. Challenger.—This very good variety belongs to the long-leaved section, the leaves being from 12 to 18 inches long when fully developed, and about 2 inches wide. They are much variegated with creamy white, this coloring becoming suffused with red as the leaves attain maturity. This variety is a strong grower and worthy of high recommendation.

C. Evansianus.—Another remarkably good sort and has bright green, slightly trilobed leaves, these being variegated with golden yellow when young, but afterward changing to various shades of crimson and orange-scarlet.

C. Hanburyanus is also a useful sort and has quite large leaves that are ornamented with golden yellow and crimson. This is also a very strong grower.

C. Disraeli is another good one, and has trilobed leaves about a foot in length, these having golden ribs and veins.

Somewhat similar to the last is **C. Earl of Derby**, the leaves of the latter being of similar form and the variegation also somewhat similar, though containing enough red coloring to render it distinct from the preceding.

C. Interruptum.—This is quite an old sort but still a good one. Its leaves are long and narrow, sometimes twisted, and sometimes consisting only of the midrib for a space of an inch or two in the central portion of the leaf, this fact easily explaining its specific name. The

color of the leaves of this variety is mostly purplish green with a crimson midrib, and as it is of quite bushy habit can readily be grown into a good specimen.

C. majesticum is also a good variety of the narrow leaved type, the foliage being from 15 to 18 inches long and quite narrow, and when young is more or less marked with bright yellow, this afterward turning to crimson.

C. multicolor is another good bedder, and has irregularly shaped leaves that when mature are edged, marked and blotched with yellow, red and crimson. It is also a strong grower, and the odd shapes assumed by its leaves make it quite an effective plant.

C. Queen Victoria is also worthy of a trial, and has oblong-lanceolate leaves about a foot in length and richly colored with yellow and crimson.

C. Veitchii is another well-known and reliable sort, and produces leaves of similar shape to those of the preceding, the variegation of which is composed chiefly of pinkish margins and veins, this being frequently reinforced with spots and blotches of yellow.

The few sorts to which reference has been briefly made are all good and distinct ones, but this list may be readily extended by the addition of such as *C. pictum*, *C. Hillianum*, *C. Auenbuehlium*, *C. Andreanum*, *C. cornutum*, *C. variegatum*, and *C. illustris*, all of which are fine varieties and worthy of all the attention they may receive. W. H. TAPLIN.

Passion Flowers.

These are natives of the West Indies and other parts of tropical and extra-tropical America, and a few species, the May-Pop (*Passiflora incarnata*) for instance, are indigenous in our southern states; a few kinds also are found in Asia.

Botanists recognize about 120 species, but only a few of these are in cultivation. But horticulturists never rest at species, they push on to obtain varieties, and here they have succeeded in getting a white flowered *P. corulea* they call *Constance Elliott*, several variegated leaved varieties, and so on.

Both to florists and amateurs the passion flowers are a very important race of flowers. As a rule they are easily propagated and easily gotten up into nice salable stock fit for mailing or express, and as they grow quite readily and generally bloom freely, the amateur is usually well satisfied with his purchase. They are mostly propagated from cuttings, and some of the sorts that are hard to strike are grafted on *corulea*, and all the species can be raised from seed, but it cannot often be had.

None of the fine species is hardy with us. Last ('89-'90) winter I had roots of *corulea* and its varieties and of incarnata live over out of doors and send up strong shoots in summer, but it was an exceptionally mild winter; in ordinary winters they get killed out. In a warm place and with a heavy mulching they might live along winter after winter.

Planted out side in summer in sheltered but warm sunny places and in good ground they grow into dense far-reaching vines and often blossom abundantly, and in a sunny place they have them perfectly clean and enjoy them.

In the greenhouse they are generally planted out in a box or border and run along under the roof or like any other running vine. They are capital for this work, only very subject to mealy bugs. Both *P. racemosa*, which has drooping



CROTON VARIEGATUM.

clusters of red flowers, and *P. Raddiana* (Kermesina) also a red-flowering species are often grown as permanent conservatory climbing vines. One of the most brilliant red flowering ones of all is *P. vitifolia* from Panama.

Passiflora Watsoniana is a new species from Brazil, and first bloomed in cultivation at Kew five years ago. The leaves are three-lobed, and the flowers are violet-purple and white and the blossoms hang up at the end of the flower-stalk like the bowl of a Dutchman's pipe. It is free blooming and the flowers are sweetly scented. But it is a hard one to propagate in quantity.

About six years ago we had another species, namely, *P. Violaeca* from Brazil, and which is very similar to *Watsoniana* in habit, foliage and flowers. I got it about five years ago from John Thorpe and have been keeping quiet about it, hoping he or some one else of my friends (hardly so-called) Constance Elliott, Arceneuil, and variegated-leaved; *P. Piordtii*, continuous blooming, showy and excellent, but I am ill at ease about the name *Piordtii*; *P. edulis* whose large, deep green, glossy leaves are more attractive than its flowers; *P. Londoni*, with handsome purple flowers and *P. Munroi*, a hybrid with showy purplish violet blossoms.

It may interest some of your readers to know why the name *Passion Flower* was given to these vines. I quote from the *Treasury of Botany*:—"The name was applied from the resemblance afforded by the parts of the plant to the instruments of our Lord's Passion and its attendant circumstances; thus the three nails—two for the hands, one for the feet—are represented by the stigmata; the five anthers indicate the five wounds; the rays of glory or some say the crown of thorns are represented by the rays of the 'corona'; the ten parts of the perianth represent the Apostles, two of them absent—Peter who denied and Judas who betrayed our Lord; and the wicked hands of his persecutors are seen in the digitate leaves of the plant, and the scourges in the tendrils."

WM. FALCONER.

Anthuriums.

In this large group of warm house aroids many very attractive plants are to be found, though to the florist the showy-flowered species and varieties form the most interesting portion, while the many beautiful foliage plants also found in this genus are probably of more value to private collections from the fact that but few of them are capable of withstanding much exposure, and consequently are of little value for decorating.

Among the anthuriums that are notable for their flowers, (or rather for their spathes) the majority have been produced from two species, *A. Scherzerianum* and *A. Andreanum*, either by means of seedling variations or by hybridization between the various progeny of these species. Crosses between other species than these have also been made at various times, but the results appear to have been less striking.

As to the particular place to which anthurium flowers should be assigned in

order to display their beauties to the best advantage it may be stated that they have been used with charming effect in certain fine arrangements of orchid flowers, the singular form of the anthuriums being specially adapted for just such a purpose as this, and the bright scarlet found in several of the varieties supplies a deficiency in color also, this being a shade that is scarce among orchids.

The anthurium flowers also possess the additional advantage of great lasting qualities, in fact some have been known to keep in good condition on the plants for fully three months and even when cut they are remarkable keepers.

As stated above the anthuriums in general prefer warm house treatment, their growth being much more luxuriant under such conditions, but when in full flower they may advantageously be kept in a somewhat lower temperature, for instance about 55°, but if this be done the plants should receive less water at such time else the roots may suffer.

When in active growth they require an abundance of water, both at the root and overhead, and moderate shading at all times. As regards soil, these plants need a light open compost, a satisfactory mixture being composed of equal parts of rough, fibrous peat and chopped sphagnum, to which should be added some good coarse sand, and some charcoal or finely broken crocks may also be included in the mixture if convenient.

In potting some attention should be paid to drainage in order to keep these plants in good condition, as stagnant moisture will prove injurious to their roots, and to avoid this the pots should be half-filled with crocks, then keep the plant well up above the rim of the pot and press the compost only moderately firm. Some growers conclude the operation by covering the surface of the soil with a coating of live sphagnum, this giving a very nice appearance and being enjoyed by the plants, but is not absolutely necessary to their well-being.

The propagation of anthuriums is usually effected by means of seeds, though division is the surest method of perpetuating any specially fine form, from the fact that seedlings vary greatly, and while one may be reasonably sure of getting some good ones among a batch of seedlings providing the seed be secured from a good variety, yet it is quite probable that there will also be a number of inferior forms in the same lot.

If division is resorted to, it is best accomplished quite early in the season, say in February or March, this being also a good time for the potting operation.

In the matter of varieties there is now much room for choice, as in the past few years considerable attention has been paid to the hybridization and selection of anthuriums, especially in Europe, and doubtless similar results will be shown on our side of the water in the near future.

The following briefly described forms are all valuable, some being especially large and fine.

A. Scherzerianum, the typical form of which has oblong-lanceolate leaves that are from twelve to eighteen inches in length and two to three inches wide—the flower stems being bright red and crowned with scarlet spathes, these being about three inches long by two inches wide. The spadix or flower-spike is composed of a large number of insignificant flowers closely massed together, and in color orange or yellow.

A. Scherzerianum Wardii is a much stronger grower than the type, and produces larger foliage and spathes, the latter being very broad and of great substance. *A. Scherzerianum Cyphri* is another fine form, and of strong growth, the spathes being of a crimson shade.

A. S. Rothschildianum is the result of a cross between the typical variety and its white form (*A. Williamsii*) and seems to combine the characteristics of both parents, the spathes being creamy white and dotted or splashed with crimson.

A. S. maximum is also a fine form of this favorite variety, and produces very large spathes of brilliant scarlet, these being narrower than those of *A. Wardii* and also longer, sometimes attaining a length of eight to nine inches.

A. Andreanum has become quite well known in the fifteen years since it was introduced, and may be briefly noted as having very large ovate-lanceolate leaves of bright green and orange-red spathes, the latter having a curiously corrugated appearance from the prominence of the veins. The spathes range from six to nine inches in length and about four inches in width, and are thrown up on long foot-stalks.

Several forms of *A. Andreanum* have been named and sent out, among them being *A. flore-alba*, which is as its name indicates, a white flowered variety, *A. grandiflorum*, and *A. Ferriense*, the latter having pink spathes.

In addition to these, numerous hybrids of which *A. Andreanum* is one of the parents exist, and of these *A. chelseiense*, *A. Froeblii* and *A. Archduc Joseph* are examples.

W. H. TAPLIN.

Boston.

The cut flower market still continues in a state of inactivity, although the demand is somewhat better on certain kinds of stock. Roses are very abundant and cheap. From present indications there will be a full supply of most varieties for Easter. Violets are abundant and were never better. The early date of the day this year will be favorable to the shipping trade which has grown to enormous proportions within the past few years.

C. L. Allen of Floral Park, N. Y., delivered an instructive lecture before the Massachusetts Horticultural Society on Saturday March 14, his subject being "The scientific education of gardeners." After defining education and speaking of the necessity of a proper training of the natural abilities, Mr. Allen spoke at length on the conflict supposed to exist between science and practice claiming that there is no good cause for the existence of such a notion. He made a strong plea for intimate and harmonious relations between the gardener and his employer, and condemned in severe terms the practice of some gardeners in expecting and even demanding commissions or all purchases made for their employers. As to where and how practical education can be best obtained the essayist said that taking it for granted that the student has a fair rudimentary education to start with, the garden is the school to attend, where every plant, animal and insect is a teacher. Above all a young man should love his profession, else he had better stay out of it. Systematic botany, while absolutely necessary to the gardener's education, will yet be a most desirable adjunct to it, and it will add greatly to his proficiency. Scientific knowledge will be a great help in practical work. From the very nature of his business the gardener



ANTHURIUMS

1. *A. Scherzerianum*. 2 and 7. *A. S.* var. *Warocqueanum*. 3. *A. S.* var. *Rothschildianum*.
 4. *A. S.* var. *Mlle. Lucienne Linden*. 5. *A. S.* var. *Bispathaceum*. 6. *A. Andreanum* var. *Mme. Closou*.

has to come in contact with more obstacles to be overcome than most classes of men. He must in a great measure be governed by the elements, which are

capricious; he must perfectly understand all the conditions of soil and climate and impossibilities are not infrequently required at his hands. We are indebted to

the gardener for all the scientific knowledge we possess in relation to plant culture and development, and it matters not whether the student is to teach the art

or practice it, the garden is the school and nature is the head teacher. There is a great difference between knowing a thing and knowing about it. The specialist emphasized the necessity of continual progress, the best gardener being not the one who merely keeps his business up to the times, but the one who keeps it ahead of the times, and pointed to the history of the business in this country during the past fifty years, in which time the practice of gardening had made such rapid strides and flowers had gradually come to be instead of a luxury a real necessity.

System, which carries with it order and neatness, is a good working capital for any gardener. A neat garden is almost invariably a good garden, and the manager of such a one is sure to be successful. All that makes a plant valuable is its beauty, and beauty is never associated with filth. Therefore every gardener, amateur or professional, private or commercial, should encourage and stimulate a love for the beautiful; it is an antidote for all the asperities of life; it softens the hours of labor and sweetens the necessities of our natures. A study of the beautiful, whether in the plant, the tree, or the flower; whether in the conservatory or the vegetable garden, in the field or wood, in fact wherever found, will have a tendency to elevate and refine character and materially assist in promoting happiness. The gardener, more than any other man, is a child of nature, whose gifts, united with his industry, his experience and observation, will make old age beautiful and pleasant. The care of the beautiful never wearies or grows old; on the contrary, it increases with our years. When the active duties of life are over, the gardener has a rich fund of enjoyment and constant companionship in the plants he loves. W. J. S.

New York.

Business continues to be very quiet. All kinds of spring flowers are plentiful, and the prospects are that there will be a good supply of everything to select from at Easter. Everybody looks forward to a good Easter and with favorable weather and good flowers, there is no reason why it should not be so. This season so far has been a very poor one.

There are many very beautiful novelties and ingenious contrivances out and though lilies may have first claim, the competition will be very warm. In baskets celluloid is all the go. They are made in all possible shapes and look very pretty when filled with flowers; round baskets of Dutch hyacinths in separate colors and others filled with growing lily of the valley will be very popular this Easter. Baskets of polyantha roses in pots will claim attention; azaleas in white pot baskets, genistas in yellow baskets, lilies in white and blue baskets all tied with handsome ribbons are expected to meet with favor. Of course baskets of cut roses have their patrons and in this case wherever possible a growing plant will fill the center. No similar should be seen on a basket of roses, but plenty of their own foliage and the flowers arranged in a natural manner have a great effect; baskets of growing carnations filled with flowers of the same variety are pretty. Orchids brought to the front by the recent exhibitions will be popular.

Dean, Keller, Pierson and Roehrs each have a splendid stock of flowering plants pushing on for Easter, and report good prospects. Lilium Harrisii has all her own way this time. Ixia is a beautiful

little thing, but too transparent; the present call is for masses of brilliancy. Freeman of Long Island says he has shipped creas all over the states and they are becoming very popular everywhere, especially the A. Wilmoreana. He has a fine lot of A. persoluta alba and A. persoluta rosea ready for the market.

Stump decorated at Mme de Barrios' on the occasion of her reception and dinner party recently. The table, oval in shape and eighteen feet long, was adorned with an immense center piece of pink tulips, which was thirteen feet long and oval; there was a twelve inch band of white tulips round the pink ones giving a pretty effect. Large boutonnieres of Grace Wilder carnations were used. He also had a large decoration for the Freundschaft Verein on the occasion of their masquerade ball on Saturday night. The handsome club house at 72d street and Park Avenue was turned into a garden scene. The ladies' reception room was transformed into a rose bower. The whole of the ceiling and walls was covered with southern smilax among which hung clusters of electric lights in light greenish globes. At the sides were banks of roses in pots arranged in banks of green moss here and there forming semi-arches. The main stairway for several flights up was like a scene in the tropics, the ceiling all the way being hid with a variety of vines, with graceful palms, genistas and azaleas at the sides; small electric lights glittered among their flowers, giving a pretty effect to the whole. The second floor represented a forest scene, the whole being studded with tall firs and other evergreens. The sides were scenes especially painted and at one end of the room there was arranged a scene from a Dutch village. Small houses were built, through the doors of which the songs and beverages of the Fatherland flowed forth. The third floor was effectively decorated and used for the dancing.

H. H. Francis has a new Giant Mignonne, it is a wonderful flower and Mr. Francis intends introducing it at the coming show. Mr. Chas. Bird is blooming a variety of flowering shrubs and novelties for this occasion. Mr. Bird's Forsythia is very beautiful and extensively used at present.

It is intended to have blooms of every carnation grown in the states at this show; a committee has been appointed to superintend the staging and classifying of this flower. Special premiums in addition to those already mentioned will be given to meritorious exhibits, the raiser's name to be attached to all carnations. We invite our brother florists to all over to contribute to this feature. It is also intended to do the same in regard to roses and Messrs. May and Asmus have made arrangements for receiving and properly staging any exhibit in the rose collection. It is the desire of the club to see what is grown and know what is worth growing. This is not merely a New York show, it is a national show. Entries have come from great distances and men prominent in horticulture from many states have promised to attend. Judging from the entries and the general interest taken here, it will certainly be an "eye opener." Get your novelties and fine flowers ready boys; we'll give you ample space and assist you in the proper displaying of your goods. Let us have Boston, Philadelphia, Chicago and other great cities' ideas in floral arrangements here. A complete list of prizes will be issued during the week.

At the meeting of the New York Florist

Club on Monday night there was much discussion on the public flower market question and from the majority of opinions expressed it was decided that such an institution would at present be fatal to the retailers. A silver cup was presented to the retiring secretary, Mr. Allen, for his valuable services rendered the club and floriculture in general for many years past. Suitable presentation speeches were made by Messrs. May, Taylor and Anderson to which Mr. Allen replied with feeling, assuring those present that it would always be his ambition to be among them in going up the hill as well as crossing the plain; he would cherish the cup and in days to come he hoped to drink from it to the many pleasant memories and achievements of the club. The club intends taking organized action in furthering the project of a botanical garden and horticultural school.

JOHN YOUNG.

Toronto.

The Toronto Gardeners' and Florists' Club held their regular monthly meeting on the 14th inst. The meeting was a very interesting one, though perhaps hardly as lively as the meetings of this very lively club generally are; many members probably had not quite recovered from the effects of the "late recent" elections.

Mr. G. Vair read a paper on "Growing lily of the valley for commercial purposes," which elicited a long discussion. It seemed to be the general opinion that there would be no trouble in producing as good commercial crops in this country as can be imported, if the right treatment be given to them, but the knowing ones (who always want to enquire what money can be got out of anything) seemed to think that they could not be grown for as low a price. However the club thought the subject had not been quite thrashed out yet and it will come up again next meeting. Mr. R. Marshall, florist, having promised to read another paper under the same heading.

Various committees were appointed to look after matters connected with the coming convention and the chairman thereof were instructed to call meetings at an early date and get matters into working order. Perhaps it might be of use to some members of the S. A. F. to know the names and addresses of these chairmen; here they are:

Reception: J. Chambers, Supt. Parks and Gardens, Toronto; finance: J. H. Dunlop, McKenzie Ave., Toronto; printing and badge: S. E. Briggs, The Steele Bros. Co., Cornhill Front Street, Toronto; streets, Toronto; trade exhibit: T. Munton, Eglinton, Ontario; registration: H. Simmers, 147 King St. E. Toronto; entertainment: W. J. Laing, 401 Huron St., Toronto; decoration: C. Arnold, 521 Queen St. W. Toronto; introduction: F. G. Foster, florist, Hamilton, Ontario; ladies: Mrs. Frazer, Spadina Crescent, Toronto; bureau of information: G. Vair, Chestnut Park, Yonge St., Toronto.

Mr. J. E. Killen from J. C. Vaughan's establishment, Chicago, dropped in to the meeting and was heartily welcomed. The club is always glad to see its American cousins; if it were not for those confounded tariff walls no doubt it would have the pleasure of welcoming more of them.

Mr. J. H. Dunlop read an extract from a private letter he had received from Mr. J. N. May fully endorsing the letter from Mr. Mendenhall, of Minneapolis, which



PASSIFLORA WATSONIANA.

[SEE PAGE 566.]

THE NEW ROSE

WABAN

This very valuable rose originated at the Waban Conservatories of E. M. Wood & Co., Natick, Mass. It is a *SPORT* from Catherine Mermet and identical with that variety in every characteristic, excepting color, which is a rich, deep, **BRIGHT PINK**; it sustains the same relation to its parent as Duchess of Albany does to LaFrance. The only objection to C. Mermet is its frequently pale, insipid color in cloudy weather; experience has shown that the **WABAN** retains its deep rich color in all kinds of weather; it will, without doubt, prove to be as valuable as *THE BRIDE* which is also a sport from the same magnificent variety.

IT HAS ALREADY RECEIVED THE SILVER MEDAL

of the Massachusetts Horticultural Society; of the Pennsylvania Horticultural Society, and **Certificate of Merit** from each of the Societies in this country and Canada where it has been shown,



ALL OF THE STOCK READY FOR DISTRIBUTION APRIL 15th IS SOLD.

On and after this date (March 12th) orders received for a limited number of good, healthy plants, ready for delivery May 15th, 1891. **ORDER EARLY.**

ORDERS BOOKED NOW, WILL BE FILLED IN STRICT ROTATION.

From 2½-inch pots.

1 Plant,	\$ 1.00	250 Plants,	\$100.00
12 Plants,	9.00	500 "	175.00
50 "	30.00	1000 "	300.00
100 "	50.00		

From 4-inch pots.

1 Plant,	\$ 1.50	50 Plants,	\$ 40.00
12 Plants,	15.00	100 "	75.00
25 "	25.00		

The following Agents have been appointed to sell the Rose in the respective territories given below:

W. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th & Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

Orange, N. J.

Mr. Alfred Hibblom of Dodd St., East Orange will put one of his rose houses into simlax next season and will build a new carnation house 120x18.

Mr. E. Porsch of Hamilton, East Orange, will build a new carnation house 100x16. His carnations look very fine.

Mr. T. H. Spaulding has added a new house 130x20 which he will use exclusively for tuberous begonias. He has many thousands of young plants. He had a bed of these begonias last season that was a sight long to be remembered. The bed was 100x3 and the plants bloomed magnificently and the flowers were superb. As a result nearly every private place about Orange will have a bed of tuberous begonias the coming season.

John McGowan has thirty-five seedling carnations that promise well. Among them are yellows, pinks, whites, scarlets and dark maroons in addition to particular colored ones. M.

THE BUFFALO Florists' Club has issued an advance list of premium classes for its chrysanthemum show and floral exhibition to be held next fall. Copies may be had on application to D. B. Long, secretary, 457 Main St., Buffalo, N. Y.

LAST WEEK we told you it would require nearly a ton and a half of paper for this week's issue. Well, we had to raise the figures. It took nearly two tons of paper (3,870 lbs) to print this issue.

CONFINE your orders to those who advertise in the AMERICAN FLORIST if you desire to give this paper your fullest support, and please name the paper when ordering.

PALMS.

We have a splendid stock of Kentias in 2½, 3 and 4-inch pots, which we offer at exceptionally low prices. Plants are of our own growing and are strong and stocky. 25 plants sold at 100 rates.

Kentia Forsteriana.....	25	\$ 2.50
" " " " " " " " " "	15	30
" " " " " " " " " "	21	20
" " " " " " " " " "	4	20
" " " " " " " " " "	21	20
Kentia Balmoreaana.....	25	12.00
" " " " " " " " " "	4	12
" " " " " " " " " "	12	20
" " " " " " " " " "	4	15
" " " " " " " " " "	12	20
" " " " " " " " " "	5	18
" " " " " " " " " "	12	20

ROSES.

To florists desiring large Roses for spring sales in the most popular varieties we can not recommend the following list too highly. Our stock is extra strong from 5-inch pots—field grown and Plants are larger than those usually sold from 6-inch pots. We offer the following from 5-inch pots at \$25 per 100; 25 sold at 100 rates.

ETOILE DE LYON, HERMOSA, QUEENS SCARLET, MME. ETIENNE, MME. SCHWALLER, MALMAISON,	DUCHESSE DE BRABANT, THE GEM, MME. JOS. SCHWARTZ, LA FRANCE, LOUIS PHILIPPE, COQUETTE DE LYON.
--	---

We have a limited number of the following from 6-inch pots at \$5 per 100.
HERMOSA, ETOILE DE LYON, MADAME ETIENNE, THE GEM, QUEENS SCARLET, DUCHESSE DE BRABANT.

DUCHESSE DE ALBANY, 5-inch at \$25; 4-inch at \$15; 2½-inch at \$6 per 100.
--

ROSES FOR FORCING.

We have an immense stock of young healthy Roses for forcing made from growing wood.

PERLE DES JARDINS, PAPA GONTIER, LA FRANCE, CARME, MME. THE, BRIDE, NIPETOS.
--

Price from 2½-inch pots \$5.00 per 100, 3-inch pots \$3.00 per 100. All the standard bedding Roses at \$4 per 100, \$40 per 100. Send in your list to be priced.

ROBT. SCOTT & SON,

19th and Catherine Sts., Philadelphia, Pa.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants, Catalogue of Prices
Now Ready.

ROSES FOR FLORISTS.

OVER THREE HUNDRED AND FIFTY VARIETIES ON SALE. Ready for Immediate Delivery.

We offer the largest and most complete stock of Roses in this country. Straight 2½-inch plants propagated from well matured field grown plants and grown in ordinary soil without manure or any stimulating material whatever.

Our Roses Resist Disease, Start Quickly, Grow Rapidly and Always give Best Results.

All the Newest and Choicest Roses for Sale and Bloom. The famous New American Pedigree Roses—Henry M. Stanley, Pearl Rivers, Mrs. Jessie Fremont, Maud Little and Golden Gate. If you want to buy Roses send your lists and have them priced. Prices low, according to value of varieties and size and character of order.

The New White Chinese Wistaria, the finest of all. New Chinese Double Purple Wistaria, very rare. Wistaria Sinensis, Magnifica and Frutescens. Fine Hardy Shrubby, all varieties, cheaper and better than imported.

New Chrysanthemums. Harry E. Weldinger, V. H. Hallow, Louis Boehmer, Mrs. THE BEAUTIFUL MANETTA VINE, new MOON FLOWERS, etc. Wholesale Price Lists FREE to Florists. Market Gardeners and Retailers only.

Address

THE DINGEE & CONRAD CO., WEST GROVE, PA.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

SAN FRANCISCO, CAL.

E. G. HILL & CO.,

RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAPLES:

ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.

PLANTS FOR CUT FLOWER GROWING

Roses, Carnations,

Chrysanthemums, Ferns.

I grow all the best varieties for this purpose. Wholesale list now ready. Send for it before buying your stock for planting.

M. A. HUNT, Terre Haute, Ind.

ROSES.

A very large stock of young Roses of the lead ing bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.

H. P. ROSES, strong, outdoor grown, Gen'l Jacq., Washington, Conn. Co., Mm. Nason, M. C. Wood, La Reine, Black Prince, etc. \$1.00 a doz; \$12 a 100. CLERMONT, large double, fine var., \$25 and \$30 per 100; \$3.00 and \$4.00 per dozen. HYACINTHS, 3½-in. pots, named sorts, \$1 per doz.; 7 per 100. In good condition for shipping. CYCLAMEN giganteum & Persicum, best strains. Very choice stock in bud and open at \$2 a 100. H. P. ROSES, summer grown, fine young plants in best sorts, \$5.00 per 100; \$5.00 per 1000.

F. A. BAKER, Bloomington, Ill.

ROSES

Good, well established Plants from 2-in. pots, \$35 per 1000, in equal number from following sorts:

Aline Sisley, Coquette de Lyon, Chat. Mermet, Clement Nabonand, Duchess de Brabant, Etoile de Lyon, Euphrosyne, Perles, Gerard Des Boies, Henri Meynard, Mme. C. Perreau, Mar. Niel, Hermosa, Mme. Jos. Schwartz, Marie Vanhoutte, Marie Guillot, Fr. Krueger, Mme. Car. Custer, Mme. Lambert, Malmaison, Mme. Camille, Mme. Bravy, Sambreuil, Ophelia, Susanah Blanchet, Queen's Scarlet, Vicomtesse de Vautier, Princess, Hohenzollern, Washington, Salatterre, Mignonette.

We will allow purchaser to strike out five sorts not wanted. Hybrid Perpetual Roses, our selection, from 2-inch pots, \$50 per 1000.

For everything in the Florists line

ADDRESS **NANZ & NEUNER,**

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IMPORTED H. P. ROSES,

Worked low on the Manetta Stock, offer the best results to the florist. Blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000 at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

(—) ROSES. (—)

LARGE AND FIRST CLASS STOCK of all the standard varieties of Teas and Hybrid Teas; also new varieties of murel, 2-inch, ready for shipping. Give us your order and we will send you GOOD, HEALTHY PLANTS at fair rates. New Trade List mailed upon application.

10 PER CENT. DISCOUNT

given from trade list prices on all orders booked before April 1st. GERMOND & COSGROVE, Sparkill, Rockland Co., N. Y.

ROSES. ROSES.

Waban, Souvenir de Dr. Passot, Mme. Pierre Guillot,

And all the other **NEW** and Standard Varieties of **Teas**: Hybrid Remontant, including **HEINRICH SCHULTHEIS**, which is by far the best early forcing Hybrid. This is the variety which **Mr. Julius Roehrs** has forced so successfully for the past three years. Also all the best varieties of

✻ HYBRID TEAS, CHINAS AND BOURBONS. ✻

For forcing, bedding, etc., etc., all of which I have an **extra** fine stock now ready for shipping at prices as low as any one can produce such stock for. **New Price List to the Trade** now ready.

JOHN N. MAY, Summit, = = New Jersey. CHRYSANTHEMUMS.

By special arrangement with Mr. John H. Taylor, of Bayside, L. I., I offer the following list of varieties to the **TRADE**. Mr. Taylor is one of the most successful growers for the New York market and has prepared a specially fine stock of **JESSICA** which has been grown by him for the past four years and has proven itself the best **Early White** in cultivation. It come into flower about the 9th of October, thus having the lead of nearly two weeks over any other large white. It is a good **shipper** and never **drops its petals**. No grower can afford to be without this grand variety. Price, 12 plants, \$5.00; 25 plants, \$8.00; 100 plants, \$15.00.

We also offer the following list of varieties in limited quantities:

Rohallion,
Mrs. Irving Clarke,
Harry E. Widener,
John Lane,
Shasta,
Miss Minnie Wanamaker,
Mrs. J. A. Gerard,
G. F. Moseman,
Pelican,
Mrs. Mary J. Thomas,
Syringa,

Mrs. S. Humphrey,
Miss Annie Hartshorn,
Mrs. G. W. Childs,
Edwin Molyneux,
Miss Meredith,
Mrs. Frank Thompson,
Excellent,
Lilian B. Bird,
Kioto,
Mrs. Alpheus Hardy,
Wm. H. Lincoln,

Walter W. Coles,
Mrs. Levi P. Morton,
Miss Mary Wheeler,
Mme. Louis Le Roy,
La Fortune,
Wm. Robinson,
Puritan,
H. Waterer,
Domination.
And many other good varieties.

Lowest price quoted for the above on application.

JOHN N. MAY, SUMMIT, - - NEW JERSEY.

E. H. HUNT,
WHOLESALE FLORIST
 79 Lake Street, CHICAGO.
 (Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
 Full line of FLORISTS' SUPPLIES.

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WHOLESALE FLORISTS,
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 All Cut Flowers in season. Orders promptly shipped.
 Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. — WIRE WORK A SPECIALTY.

C. H. FISK,
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OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.

E. J. HARMS,
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CUT FLOWERS,
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 89 Wabash Ave., CHICAGO.
 Store Open: Nights 9 P. M.; Sundays 2 P. M.

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All Flowers in season. Prompt attention
 given to shipping orders.

LA ROCHE & STAHL,
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 — or —
CUT FLOWERS,

1237 Chestnut Street, PHILADELPHIA.
 Consignments Solicited. Special attention paid to
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J. M. McCULLOUGH'S SONS,
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 134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES:
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ELLISON & KUEHN,
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CUT FLOWERS.

The Western Trade Solicited.

Write or Telegraph. ———
SMITH FLORAL CO.,
 77 7th Street S. Minneapolis, Minn.

Wholesale Markets.

Cut Flowers.

	BOSTON, March 16.
Roses, Hybrids.....	2.00 @ 2.50
" Bon Silence.....	2.00
" Niphetos, Goutiers.....	4.00 @ 4.50
" Wootton.....	4.00 @ 4.50
" Mermets, Brides.....	2.00 @ 2.50
" Perles, Sunsets.....	2.00 @ 2.50
" Jaccs.....	12.00 @ 18.00
".....	1.00 @ 1.50
Carnations, long.....	1.00 @ 1.50
Carnations, short.....	.75
Violets.....	.50
Valley, tulips.....	4.00
Pansies.....	4.00
Harrisii.....	4.00
Daffodils, hyacinths.....	1.00
Smilax.....	1.50
Adiantums.....	1.50
Asparagus.....	50.00
Calms.....	6.00 @ 8.00
Harrisii.....	5.00 @ 8.00
Heath, per bunch.....	.50 @ .75
Spirae.....	9.00

	NEW YORK, March 16.
Roses, Beauties.....	15.00 @ 50.00
" Bon Silence.....	1.00 @ 2.00
" Perles, Goutiers.....	2.00 @ 4.00
" Niphetos, Sunsets.....	3.00 @ 5.00
" Mermets, Brides.....	2.00 @ 4.00
" Waterlilies, Cousins.....	3.00 @ 5.00
" Hostes.....	3.00 @ 5.00
" La France.....	3.00 @ 10.00
" Wootton, Beauties.....	3.00 @ 5.00
" Hybrids.....	15.00 @ 30.00
".....	3.00 @ 12.00
Romans, daffodils.....	2.00 @ 3.00
Valley.....	2.00
Tulips.....	2.00 @ 4.00
".....	1.50
Violets.....	.50 @ 1.00
Mignonette.....	1.00 @ 2.00
Freesia.....	1.00 @ 2.00
Smilax.....	15.00 @ 25.00
Harrisii.....	4.00 @ 5.00
Lilac per bunch.....	.75 @ 1.00

	PHILADELPHIA, March 16.
Roses, Beauties.....	25.00 @ 40.00
" Brunners.....	50.00
" La France, Albany.....	4.00 @ 10.00
" Laines, Lizards, Niphetos.....	2.00 @ 5.00
" Mermets, Brides.....	3.00 @ 10.00
" Wootton, Beauties.....	3.00 @ 5.00
" Perles, Niphetos.....	3.00 @ 5.00
" Hostes.....	3.00 @ 5.00
" Waterlilies.....	6.00 @ 8.00
Carnations, long.....	1.00 @ 1.50
" short.....	1.00 @ 1.50
Valley.....	2.00 @ 4.00
Harrisii, short.....	4.00 @ 5.00
Harrisii, long.....	10.00
Tulips.....	3.00 @ 5.00
Daffodils.....	4.00
Violets, double.....	.35 @ .50
Smilax.....	20.00
Adiantums.....	1.00

	CHICAGO, March 18.
Roses, Bon Silence.....	2.00 @ 3.00
" Perles, Niphetos.....	4.00 @ 6.00
" Mermets, Brides.....	2.00 @ 3.00
" Beauties.....	20.00 @ 30.00
" Goutiers.....	4.00 @ 5.00
" Bonnets, Woottons.....	4.00 @ 5.00
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Valley.....	2.00 @ 3.00
Tulips.....	4.00 @ 6.00
Roman hyacinths, hardcase.....	3.00 @ 4.00
Smilax.....	12.00 @ 15.00
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WM. J. STEWART,
Cut Flowers and Florists' Supplies
 — WHOLESALE. —

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GEO. MULLEN,
WHOLESALE FLORIST,
 Florists' Supplies Always in Stock.
 17 CHAPMAN PLACE,
 (Off School St., near Parker House),
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Orders by Mail, Telegraph, Telephone or Express
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WHOLESALE FLORISTS
 165 Tremont St., BOSTON, MASS.

We make a specialty of shipping choice Roses and
 other Flowers carefully packed, to all points in
 Western and Middle States. Return telegrams are
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WHOLESALE CUT FLOWERS AND
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THE WISCONSIN FLOWER EXCHANGE,
 133 Mason Street, MILWAUKEE, WIS.

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 20 West 24th Street,
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LILY OF THE VALLEY,
 And the Choicest ROSES for the
 fall and winter season.
 Mention American Florist.

W. S. ALLEN,
Wholesale Dealer in Cut Flowers

38 EAST 23rd STREET, NEW YORK.

(ESTABLISHED 1871.)

Price List sent upon application.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
 No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

FRANK D. HUNTER,
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GROWERS OF CUT FLOWERS.
 — WHOLESALE ONLY. —

SPECIALTY.—Filling Telegraphic Orders.
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 1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place
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We keep a large supply of Fanciers and Carna-
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AUCTION SALES OF FANCIES SPRING AND FALL.
 Mention American Florist.

At Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FORTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

Agricultural Seeds.

C. R. Orcutt of San Diego, complains that his local collector assesses him 20 per cent duty on Guadalupe Island Palm Seeds (*Erythra Edulis*) as agricultural seeds. He states the free list distinctly includes "fruits, green or dry, dates, palm nuts and palm-nut kernels," yet the collector refused to admit this claim. In conversation held with him, he said all fruit or ornamental tree seeds were considered agricultural seeds by custom officers. Mr. Orcutt says he would be glad to hear the proper definition of agricultural seeds.

[This is the old story which we have had occasion to relate before in these columns, namely that the present tariff law with its many revisions and changes, is subject to the individual interpretation of each custom officer in America in applying the law. The old axiom "Many men of many minds" is here exemplified. Undoubtedly duplicate invoices of a mixed lot of seeds, plants and bulbs, could today be entered at ten different ports in the U. S. and at each port pay a different duty. We have suggested to custom officers that these disputed points should be made report of and that each importer should give his views in writing and let a meeting be held of the different collectors, or assistant collectors or an officer from each port, and these questions considered and a uniform rate made in each case. It is well known that many importers do not the past season pay any duty on clematis, while others have been charged duty on both roses and clematis. This duty on valuable stock like clematis and roses, amounts to as much as the entire profit, therefore some houses are getting two profits on their stock this year.]

THE MICHIGAN SEED CO., succeed the Michigan Lake Shore Seed Co., at South Haven, Mich., except to liabilities.

THE Michigan Agricultural College propose to send samples of six of the most noxious weeds with their bulletins to farmers, attaching the seeds to a page of their bulletin with glue. They anticipate that this will prove a wonderful aid to the farmer in detecting the same among his seeds.

APPLE SEEDLINGS.

We now have on the road a large supply of FIRST CLASS APPLE STOCKS suitable for grafting or budding, which will arrive about the latter part of this month.

Price \$1.00 per 1000, boxed and freight paid when not less than 5000 are taken.

FRENCH CRAB SEED.

We expect our last importation to arrive the last of this month. It has been kept moist and will be in excellent condition for Spring planting. No frost necessary to germinate. Price \$12.00 per bushel.

THOMAS MEEHAN & SON,

March 14th, 1891. GERMANTOWN, PHILA., PA.

FOR SALE.

Callas in 4-inch pots ready to bloom, \$20 per 100.

W. J. DOWNES,

906 Sherman Ave., Evanston, Ill.

DID YOU ever plant seeds and then wait sadly for the green leaves that never came? Burpee's Seeds are not that kind. You plant them: they grow. That's one reason why Burpee's mail order seed business is the largest.

The Five Finest Novelties of 1891 are

Crozy's Cannas, that bear magnificent flowers all summer;

New Fancy German Pansies, special selection of brightest and best;

Golden Gate Poppies, gorgeous flowers of every conceivable shade;

Fringed Star Phlox, elegantly fringed flowers of star-like form; and

Eckford's Newest Sweet Peas, decided novelties.

Let us mail you a copy of Burpee's Rare Annuals for 1891. 168 pages, richly colored plates. Information about Rare Novelties and Premiums Free to any Flower or Vegetable Grower who intends to buy Seeds, Bulbs or Plants. Write today.

Name this paper.

W. ATLEE BURPEE & CO., PHILADELPHIA, PA.

To make new friends for Burpee's Seeds, we will mail

ALL FIVE of these novelties,

Cannas, Pansies, Poppies, Phlox, Peas,

For 26 Cents—12 two-cent stamps.

Full directions for culture on each package. If you do not want all five, send us 16 cents for any three. And remember that

Burpee's Seeds GROW!

Don't buy dead seeds at the store, but order direct from Burpee.

Free to any Flower or Vegetable Grower who intends to buy Seeds, Bulbs or Plants. Write today.

FLOWER SEEDS.

FOR PRESENT SOWING.
ASTER Truffant's Prize. Fringe-flowered, choicest mixed, per trade packet 50 cents; per oz. \$2.50.
White, Scarlet, Blue, Purple, each per trade packet 50 cents; per oz. \$2.50.
BALSAM Perfection Extra. double white, per trade packet 50 cents; per oz. \$2.50.
SWEET PEAS Eckford's Choicest Mixed, per trade packet 50 cents; per oz. \$2.50.

Henry A. Dreer, PHILADELPHIA.

714 Chestnut Street,

USE FERRY'S SEEDS

BECAUSE THEY ARE

THE BEST.

D. M. FERRY & CO'S

Illustrated, Descriptive and Priced

SEED ANNUAL

For 1891 will be mailed FREE

to all applicants, and to last season's

customers. It is better than ever.

Every person using Garden,

Flower or Field Seeds,

should send for it. Address

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DETROIT, MICH.

Largest Seedmen in the world.

Do you want the BEST SEEDS?

If so, send to

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Growers and Importers,
BOSTON, - - MASS.

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Manufacturer of

SEED BAGS

ENVELOPES OF ALL KINDS.

Printing a Specialty.

NEW HAVEN, CONN.

Samples and prices on application. When writing for prices, please state sizes and quantity wanted.

MRS. J. S. R. THOMSON, Sparlanburg, S. C.

OFFERS TO THE TRADE, Per 1000
Orchid Eudora... \$40.00
Tillandsia bracteata... 40.00
" tricolorata... 40.00
Crimum Americana... per 100 \$10.00
Anasile... 20.00
Panicum coronarium... 20.00
Over 20 other named plants, Cacti, etc.

FRESH GREENHOUSE SEEDS, FROM PRIZE FLOWERS.

Trade Pkt.
PRIMULA, Fimbriata Rosea, Fimbriata Alba..... \$.25
PRIMULA, Rubra & Alba, frim leaved..... \$.50
PETUNIA, Mammoth Double striped and blotched..... \$.50
VERBENA, finest mam. vars. mixed..... \$.50
CINERARIA, finest mixed, hybrida..... \$ 1.00
CANNA, Crozy's new large fl'w'g dwf..... \$.25
CENTAUREA, Candissima 500, Gymnocarpa..... \$.25
BEGONIA, double mammoth tuberous rooted mixed..... \$ 1.00
BEGONIA, sgl. mam. tuberous rooted..... \$.50
GLOXINIA, finest ext. mixed hybrida..... \$.50
CHRYSANTHEMUM.
CYCLAMEN, Giganteum, Album and Roseum Superbum..... \$ 1.50
COBEA Scandens..... \$.25

Sent for my Wholesale List of Flower Seeds FREE. This stock is for the most critical trade. I solicit your orders.

H. W. BUCKBEE,
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SURPLUS STOCK

WE HAVE YET TO OFFER THE FOLLOWING Surplus stock, crops of 1890:

1200 lbs. Colossal Asparagus Seed
500 " Favorite Tomato " "
300 " Perfection " "
250 " Paragon " "
3000 " Watermelon " "
35 " N. Y. Imp. Eggplant " "
1500 " Muskmelon " "
600 " White Spine Cucumber Seed " "
800 " Boston Marrow Squash " "
125 " Bullnose Pepper " "
100 " Sweet Mt. " "
40 " Crocopp's Giant Pepper " "
30 " Child's Celestial " "
25 " Red Cayenne " "
15 " Red Cherry " "

Write for prices to

WM. R. BISHOP, Seedsman, Burlington, N.

IMPORTANT NEWS.

NO DUTIES TO PAY ON BULBS.

Having made special arrangements to supply the Wholesale trade and extensive growers, I am now prepared to book orders for fall delivery,

AT LOWER PRICES THAN EVER BEFORE.

for Roman Hyacinths, Paper White Narcissus, Narcissus Grandiflora, Freesias, Alliums, Liliun Candidum, Liliun Harrisii, **Extra Strong Berlin Pips Lily of the Valley**, Azalea, Indica, Palms, etc., etc.

Send in your estimates and I will quote **Bottom Prices**.

As values will surely advance later on **now is the time to place your orders.**

On hand for immediate delivery a limited quantity of **Extra Strong IMPORTED Clematis**. Address

C. H. JOOSTEN,

Importer of Bulbs and Plants,

3 Coenties Slip,

NEW YORK.

Export orders solicited for American Bulbs, Tree Seeds, Pampas Plumes, etc., etc.

LILY OF THE VALLEY!
TRUE BERLIN PIPS.

3 yrs old, dormant, warranted in perfectly sound condition.

Price per original case of 2,500 pips, \$24;
per 10,000, \$80; per 1,000, \$10;
per 100, \$1.50.

Order now, as stock is limited.

TERMS CASH.

A full line of Summer flowering Bulbs, Seeds, Plants and Florists' Supplies, furnished at lowest market prices.)

Catalogues free to applicants. Address,

J. A. DE VEER,
18 BURLING SLIP, NEW YORK.

SPECIAL LOW PRICE

Lilium Harrisii and Longiflorum Bulbs

Having just returned from a trip to the Bermudas where I went to have a good look after the Easter Lilies, and having made arrangement with the largest growers of those beautiful bulbs for a large quantity of their crop, we are now able to offer good, healthy and pure bulbs—June and July delivery, at the low rate of:

Per 1000
4 to 5-inch circum.....\$ 35.00
5 to 7-inch ".....45.00
7 to 9-inch ".....70.00
9 to 11-inch ".....115.00

LILIUM JONGIFLORUM same price and sizes as above. Delivery in August. Please order before May and oblige. Yours respectfully,

HULSEBOSCH BROS.,
P. O. Box 3118. NEW YORK CITY.

LILY OF THE VALLEY PIPS.

(Selected strong 3-year-old Pips.)

For terms and particulars apply to

WM. HAGEMAN,
Eight and McKean Sts., Philadelphia, Pa.

Sole agent for the U. S. for the United Hamburg and Berlin Growers. Office Hamburg Foremarkt 25.

Highest U. S. reference furnished as to quality.

Mention American Florist.

Z. DE FOREST ELY & Co.,

WHOLESALE

Seed Growers and Merchants.

Carry one of the most complete and extensive stocks of **GARDEN SEEDS** in the United States. We make a specialty of **GROWING PEAS and BEANS, AMERICAN TURNIP and CABBAGE SEEDS, ONION SETS and PURE SEED POTATOES.** We cater to the Jobbing trade. **WRITE FOR PRICES.**

*** NOW * READY. ***

TUBEROSES,	DOUBLE PEARL	Per 100	Per 1000
	Fine Large Bulbs.....	\$ 1 00	\$ 7 50
GLADIOLUS,	FINE MIXED	1 25	10 00
	EXTRA CHOICE	1 75	15 00
	SHAKESPEARE	7 50	

Also Importers of

Bulbs for Florists.

Dutch and Roman Hyacinths, Tulips, Narcissus and True Bermuda Lilies, (L. Harrisii.) Special import offer for Fall and Summer of 1891 **NOW READY.** Do not fail to write for it. Liberal terms, fair prices, selected quality and square business treatment. Address

Z. DE FOREST ELY & CO.,
1301 and 1303 Market Street, PHILADELPHIA, PA.
and 246 North Broad St. P. O. BOX 1176.
Registered Cable Address, DEFOREST, Phila. TELEPHONE 1298.

DON'T FAIL to secure a few plants of that wonderful **VEREEN A. CLIMAXER.** Have never seen anything better, all points considered (see ad. in January No.) Ready now, 6 for 60c; 12 for \$1; 25 for \$1.50. Heavy stock, perfectly healthy. By the 100 and 1,000 in March and April. See other special offers.

J. C. GIBSON, WOODBURY, N. J.

TO EXCHANGE.

Large clumps of **EULALIA JAPONICA VARIEGATA.** ZEBRINA.

Will take in exchange **TEA ROSES**, mostly yellow. Address **F. J. ULBRICHT, P. O. Box 655, Anneton, Ala.**

AKRON, O.—At a meeting of the Botanical Section of the Akron Scientific Club Feb. 18, Dr. J. B. Hill read a very interesting paper on "How plants climb."

AUGUSTA, ME.—Thomas McClunie, the florist of Hartford, Conn., has been giving the contract for laying out and beautifying the grounds around the State Asylum for the Insane, located here.

SAGINAW, MICH.—C. C. Elwell, who has been connected with the Allen Nursery Co., since its organization, has severed his connection with the firm and will start in the nursery business for himself.

NORWICH, CONN.—Alfred Hunt has leased the florist business on La Fayette street from Mrs. R. H. Goldsworthy for a term of years, and his name should be substituted for that of R. H. Goldsworthy in the directory.

BAY CITY, MICH.—The Bay County Horticultural Society is laying plans for a chrysanthemum show next fall. The society is considering the advisability of presenting a number of chrysanthemum plants to amateurs upon the promise that they will grow them for the exhibition.

UMCA, N. Y.—At the annual meeting of the Ulica Florists' Club held March 12, the following officers were re-elected for the ensuing year: President, Jonathan Aucock; Vice-President, Charles Seitzer; Secretary, J. C. Spencer; Treasurer, Chas. F. Baker; Executive Committee, Peter Crowe, William Mathews, J. C. Bigelow. It was decided to hold a flower show the coming fall.

PLANTS



WANTED.

1000 Plumbago Capensis.
1000 Rhynchosperrum Jasminoides.
1000 Canna Ehemanni.
1000 Clerodendron Balfourii.

In small plants. Send sample and price. Smaller quantities accepted.

A. BLANC & CO.,
PHILADELPHIA, PA.

We will buy all Cactuses offered at a fair price. None but well grown plants wanted. Our stock of 200,000 plants is going off faster than we expected.

Zirngiebel's Improved Strains

—OF—

WHITE ASTERS, PERPETUAL, WHITE STOCKS, GIANT MARKET and FANCY PANSIES; NEW HYBRID CARNATIONS, a cross between the Perpetual and Marguerites, and greatly superior for florists' use, in separate colors, PEAR YELLOW, white, pink and red shades.

Any of the above seeds in trade packets at \$1.00 each.

Also the choice NEW CONTINENTAL CARNATIONS for 1891. Miss Moore, Mme. Gobet, Roi des Violettes, Bouton d'Or, Gacane Morel, to be sent out in March.

Send for Descriptive List of all to

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.

BEGONIAS A SPECIALTY.

LAING'S BEGONIA SEED—Awarded Four Gold Medals and Gold Cup. Unequaled quality. Saved from prize plants. Choicest mixed single or double varieties, 10, 20, 40, 60, 80 and 100 per packet. Collections, 12 named single varieties, separate, at 50c. In named varieties, 30c. The cheapest and best procurable. Trade offer post free. Descriptive catalogue of Begonias, Plants, etc., mailed free on application.

JOHN LAING & SON,
Seedsmen and Begonia Growers,
FOREST HILL, LONDON, ENGLAND.

ROOTED CUTTINGS.

CARNATIONS: All sold until April 1st, will then have a large stock of the Standard and sorts and Lizzie McGowan. Over 100,000 L. L. LAMBORN, MRS. FISHER and SILVER SPRAY. Send for Descriptive List with prices.
COLEUS, a choice assortment of the best bedders at \$6.00 per 1000, 75c per 100; Golden Bedder or Verschaffeltii alone \$7.00 per 1000.
CANNA EHEMANI, strong roots at \$7.50 per 100. **EMILE LECLAIRE** \$8 per 100.

SMILAX.

This is one of my spring specialties and is gotten up in first class shape for \$6.00 per 1000; samples 10 cents.

PANSIES.

My Pansies are sold up to April and only a few left for then; they are the best in the market and delay will find them all sold. Orders are coming in for next fall; there is nothing like being on time.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

LIZZIE MCGOWAN,

* * THE QUEEN OF WHITE CARNATIONS! * *

Will be ready for distribution February 10th, '91. Price, \$12 per 100; \$100 per 1000, for strong well rooted plants from cutting bench. Plants well established in small pots, \$3 per dozen.

Send for price and descriptive list of this and other sorts.

ADDRESS H. E. CHITTY, PATERSON, N. J.
Mention American Florist.

Rooted Cuttings.

NOW READY. UNSURPASSED IN QUALITY.

GOLDEN GATE, Grandest New Pure Yellow. ROOTED CUTTINGS, \$1.50 per dozen; \$12.00 per 100; \$100.00 per 1000.

WM. F. DREER, Magnificent, Fringed Rose Pink. ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

J. R. FREEMAN, Fragrant, Crimson Scarlet. ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

CONSTANCY, Glowing, Bright Scarlet. ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

FRED CREIGHTON, Delicate, Soft Pink. ROOTED CUTTINGS, 60 cents per dozen; \$4.00 per 100; \$35.00 per 1000.

For well established plants from small pots, see ILLUSTRATED CATALOGUE—free. ROOTED CUTTINGS, at prices per dozen, free by mail.

CHAS. T. STARR, Avondale, Chester Co., Pa.

Mention American Florist.



LIZZIE MCGOWAN THE NEW WHITE

CARNATION. ROOTED CUTTINGS, \$12 per 100, or \$100 per 1000.

Summit, N. J., December 6th, 1889.

Mr. JOHN MCGOWAN,

Dear Sir:—I consider the Lizzie McGowan Carnation the finest White in cultivation. JOHN N. MAY.

Ready for delivery Feb. 10, 1891. 500 at 1000 rate, 50 at 100 rate.

ADDRESS JOHN MCGOWAN,
363 Main Street, ORANGE, N. J.

ROOTED CUTTINGS OF CARNATIONS.

Standard and Fancy varieties, ready January 1st. Stock healthy, cuttings rooted cool. A large stock of NEW WHITE CARNATION L. L. Lamborn. A liberal discount on large lots for later delivery. Send for wholesale price list.

Wm. Swayne, P. O. Box 226, Kennett Square, Pa.

CARNATIONS!

NELLIE LEWIS, FRED. CREIGHTON, GOLDEN GATE, FAIR ROSAMOND, J. R. FREEMAN, HECTOR, MRS. FISHER, WM. F. DREER, CHASTITY, SILVER SPRAY, TIDAL WAVE, GRACE WILDER, L. L. LAMBORN, CONSTANCY, EDELWEISS, EMILY LOUISE TAPLIN, ANGELUS, LOUISE PORCH, NELLIE BLV. DOROTHY, DAY BREAK, and sixty other leading varieties. 100,000 ready now. Send for price list, and secure your stock. GEO. HANCOCK, Grand Haven, Michigan.

Ready Now!

One hundred thousand Rooted Cuttings and young plants of

CARNATIONS,

including Silver Spray, Tidal Wave, Nellie Lewis, L. L. Lamborn and Fair Rosamond, and seventy-five other new and standard varieties, with Novelties of 1891.

Send for list, and order early to avoid disappointment.

GEO. HANCOCK,
GRAND HAVEN, MICH.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. Shelmire,
AVONDALE, PA.

CARNATIONS. ROOTED CUTTINGS

of New and Old varieties at the lowest price possible to secure good stock from healthy plants. Seventy-five thousand will be ready by Feb. 1st. Send for catalogue or price list.

SEND ORDERS EARLY.
ISAAC LARKIN, Toughtenamon, Pa.

ROSES AND CARNATIONS.

I shall have for spring delivery a surplus stock of plants in 2½, 3 and 4-in. pots, in the very best condition, of the following roses: **AMERICAN BEAUTY, DUCHESS OF ALBANY, MME. HOSTE, SOUVENIR DE WOOTTON, LA FRANCE, MERMET, PERLE DES JARDINS, BRIDE and NIPHETOS.** And of

CARNATIONS

SILVER SPRAY, TIDAL WAVE, PORTIA, AND PRESIDENT DE GRAV. All of the above stock will be in first-class condition and guaranteed to give satisfaction. Orders booked now to be filled at any time desired. Price list on application.

O. P. BASSETT,
HINSDALE, ILLINOIS.
Mention American Florist.

Carnation Cuttings.

Boxed off and well established. Send for Price List.

DE WITT BROS.,
BRISTOL, PENNSYLVANIA
Mention American Florist.

Rooted Cuttings of Carnations

In great quantity, ready now.

Also 25,000 PEARL TUBEROSE BULBS
1st size at \$7.00 per 1000.
2d size at \$5.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

CANNAS.

Per 100
Ehemanni and LaTour de Grand Ronde \$ 5.00
Emil Leclaire, Nouton and Adolph Weick 12 00
Tuberoses, Pearl 10 00
Caladium Esculentum, jet size 7 00
" " 2nd size 6 00
Can use in exchange, 1000 Carnations, Rooted Cuttings.

E. S. NIXON & SON,
Chattanooga, Tenn.
Mention American Florist.

VIOLETS.

M. LOUISE and SWANLEY WHITE,
\$2.50 per 100. Write for prices on any miscellaneous stock you need.

McCREA & COLE, Battle Creek, Mich.
Mention American Florist.

THE LATEST AND GRANDEST NOVELTY OUT.

NELLIE LEWIS CARNATION.



Flowers very large and full, and of a color never before seen in Carnations — **AN EXQUISITE SHADE OF PINK.**

W. J. PALMER & SON,

Florists of Buffalo, N. Y. say: "I had an opportunity of seeing Nellie Lewis Carnation in full bloom on Jan. 15th, and a grand sight it was. I consider it a better and finer Pink Carnation than Grace Wilder. Though the flowers do not demand \$1.00 each as we read about of late, they will get there just the same."

For decorative purposes and corsage bouquets, they are unsurpassed. A bowl filled with them used at a dinner a short time ago, lighted up the entire table. Don't fail to place your order at once, as we control the entire stock and have only a limited number of plants.

Price, Rooted Cuttings, per 100, **\$10.00.**
Plants, 2-in. pots, per 100, **\$12.00.**

VICK'S SEEDS NEVER DISAPPOINT, is the verdict of the millions who have planted them.

VICK'S FLORAL GUIDE for 1891, contains over 100 large pages, hundreds of illustrations, colored plates, Best Novelties, all worthy of cultivation; \$1.00 and \$2.00 cash prices. Price, 10 cents, which deduct from first order and it COSTS NOTHING.

JAMES VICK, SEEDSMAN, Rochester, N. Y.

* ROOTED * COLEUS CUTTINGS.

Golden Bedder, Golden Verschaffeltii, Crimson Verschaffeltii, Peter Henderson, Fire-and-Glory of Autumn, Sunray, J. Goode, Crimson Bedder, Sunset, Etc.

Ten strong Cuttings each, of above ten varieties, by Mail, One Dollar.

Twenty fine sorts, including above, five of each, by Mail, One Dollar.

Write for prices on larger lots by Express. Samples of the 20 sorts mailed for 25 cts. All cuttings strong and healthy, labeled, and well rooted.

ALEX. MCBRIDE, ALPAUS, NEW YORK

	Per 100
CHRYSANTHEMUMS , Per 1000,	
\$25.00, many choice varieties.....	\$3.00
GERANIUMS , 10 to 20 splendid sorts.....	3 00
ROSES , all the best standard vars.,	
my selection.....	4 00
VERBENAS , in good varieties.....	2 50
ALYSSUM , dbl. white, nice young plts.....	3 00
CANNAS , in six splendid vars.....	3 00
DOUBLE WHITE FEVERFEW , strong	
2 inch, ready to shift.....	3 00
HELIOTROPE , Garfield (best purple)	
2½ inch.....	3 00
SALVIA , scarlet, white, black & var.....	3 00

Address **N. S. GRIFFITH,**
JACKSON CO. INDEPENDENCE, MO.
(Independence is well located for shipping, being 8 miles east of Kansas City.)

Mention American Florist.

10,000 Plants of the Leading

STRAWBERRY * GANDY.

As good as pot-grown, for sale. Price on application.

C. K. HOFFMEYER, Florist, Allegheny City, Pa.
Mention American Florist.

FRESH, FANCY FLOWER SEEDS.

Improved and Superior Strains of Show Flowers for Competitive Exhibition Purposes.

ASTER—Prize Cut Flower varieties.

Buckley's Snowflake, the finest pure white variety ever introduced, either for cut flower work or general garden purposes. It is of fine form, very lasting, shows no discolored center, and I can recommend to be at all in all respects. Trade packet 5c. Aster—Washington light blue, Washington white, Washington light blue, cherry red chrysanthemum. Trade packet 5c.

PANSY—Cassier's Mammoth, large dowered

blotched..... 41 00

—Bugnot's Prize, superb blotched..... 1 00

—Trimardeau Mammoth Giant, mixed..... 50

—Yellow..... 50

—Finest mixed, superior quality..... 01 31

—Twenty separate colors..... 25

Send for my Wholesale List of florists greenhouse seeds Free. I solicit your trade.

H. W. BUCKBEE,
ROCKFORD, ILL.
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Rooted cuttings, - - - - - per 100, \$1.00; per 1000, \$5.00.

THE FOLLOWING UNSOLICITED TESTIMONIALS WERE RECEIVED IN FIRST MAIL TO-DAY, FEB. 20th:

BUFFALO, N. Y., Feb. 19th.—Received verbenas. They were very satisfactory. Thanks for good count and ready stock.
CANTON, O., Feb. 19th.—Received verbenas in good condition except Crystal (replied). All the others are splendid.
ALEXANDRIA, Va., Feb. 19th.—The plants arrived yesterday in good condition. Thanks to you for your promptness and liberality.

SEND FOR PRICE LIST.

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MAMMOTH SET.

Finest Varieties.

SELECT, CLEAN STOCK.

ROOTED CUTTINGS. Cash with order. \$1.00 per hundred;

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100 \$5; per 1000 \$50.

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Miscellaneous stock of all kinds.

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plants of this variety as it is cheaper and covers

almost the same space, and keeps fresh considerably

longer. We send and send me every Daisy you can

cut, as I cannot get them fast enough to satisfy

customers. They say it is the best cut flower to buy

because it keeps for 2 to 3 weeks. I feel like to get

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Yours truly,

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MISSOURI RISE GREENHOUSE

CRATTANOGA, TENN., March 1st, '91.

FRED, SCHNEIDER, DEAR SIR:—We received our

Daisy Snowflake, and find they are all fine. We

closed please find our check for \$5.00 for 100 more

plants. Please send them as soon as you can, as we

want to get them to blooming well before Easter.

Can you supply the plants in white and what price?

They ship so expediently that we would like to get

some for immediate use.

Very resp. MAC GOWAN & COOK

P. S.—We add to our remittance; please send its

value in Cut Flowers of the Daisies with shipment.

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Can you supply the plants in white and what price?

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P. S.—We add to our remittance; please send its

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FOR FLORISTS' AND CUT FLOWER USE

Choicest varieties, healthy and true to name at lowest trade prices.

Each in lots of	Each in lots of	Each in lots of	Each in lots of
5 25	5 25	5 25	5 25
Ada Spaulding, extra..... 10c 8c	Twilight..... 10	*M. Bernard..... 10 8	F. Audiguer..... 5
E. G. Hill, extra..... 10 8	Roward..... 10	Mary Wheeler..... 5 4	Grandiflorum..... 4 4
E. Lousdale..... 10	Alavanche, extra..... 8 8	Mrs. S. Houston..... 5 4	G. F. Mosmann..... 5 4
F. McDonald..... 10	*T. Maasouk, clear yellow..... 5 5	Miss Meredith..... 5	Rido..... 4 4
G. P. Dawson..... 10 8	*Harvest Queen, pure white..... 10 8	M. J. M. Puzny..... 5	L. Cuning..... 5 4
H. E. Widener, extra..... 10 8	*Ivory, pure white..... 15	*T. Delmarie..... 6 5	F. Thomson..... 5 4
*J. H. Fletcher, extra..... 10 8	Miss M. Walters..... 10 8	Prince Kanowski..... 5 5	H. Canadi..... 5 4
J. Lane..... 10 8	*M. Brannet, extra..... 8 5	*S. B. Dana..... 6 5	Marvel..... 5
Molly Dawn..... 10 8	Coronet..... 10 8	T. C. Price..... 5 5	Mrs. E. W. Clark..... 5
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Delivered April 1st, at \$1.00 each; per set of
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Achilles Gem (Pearl), new white dowering heavily
perennial, flowering nearly all summer, fine for
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strong plants, mail \$1.50 per doz., Express \$1.25
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12 for \$1.00.
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Chrysanthemums, newest named sorts assorted, by
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best grower of all, heavily fringed, extra, mail
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Gloxinia-Hydrilla Alba—new pure white with slight
stain of delicate white in throat, a variety of
plant, medium bulb, mail 10 for \$1.00.
Gloxinia bellanca, the new crimson scarlet, petals
double, mail 4 for \$1.00.
Pansies Buxtona, extra fine strain, pot plants by
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Pansies, Savers, extra fine strain, pot plants by
express \$2.50 per 100.
Pansies, Trimardeux, extra fine strain, pot plants
by express \$2.00 per 100.
Primrose Arvore, mail 6 for \$1.00.
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Shrimp, strong plants, express \$3.00 per 100.
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Aster, Double Gem (Pansy), \$3 per 100 Ex.
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Gloxinia, variegated, rooted cuttings, \$2 per 100.
Aster seed, Truffaut's Perfection Imp. mixed 1890
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PURITAN. GLORIOSUM. CULLINGFORDII,
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All Nice Clean Stock—Strong.

Verbenas 2 1/2 in..... 2 1/2c
Geraniums, best sorts, 2 1/2 in..... 2 1/2c
Cyclamen, 2 1/2 in, fine strain..... 1 1/2c
"Mums." standard sorts rooted cut-
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Iris, large white, heavy clumps..... 8c
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Feverfew Gem, rooted cutting..... 1 1/2c
2 1/2 in..... 2 1/2c
Dahlia, Guiding Star 2 1/2 in. pot
plants..... 2 1/2c
Rose Ger. 2 1/2 in..... 2 1/2c
Achyranthus Gilsonii 2 1/2 in..... 2 1/2c
A few Eucharis Amz zonia.....

AMERICAN FLORIST, bound, full set.

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PREMIUM AMERICAN PANSIES.

SEEDS AND PLANTS,

Grown by WM. TOOLE, Pansy Specialist,

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The fine seed of our greenhouses did not affect

our supply of either seeds or plants, and we can

fill orders for seeds now, and plants in their sea-

son, including seedlings of Verbenas, Salvia, Pe-

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PANSIES—Good strain, strong, transplanted,
\$1.00 per 100; \$18.00 per 1000.

FEVERFEW—Little Gem, 50 cents per dozen;

\$1.00 per 100.

CALLA—Strong, 2 1/2-inch pots, \$2.00 per 100;

\$2.00 per 1000.

PEARL TUBEROSE BULBS—\$1.50 per 100;

\$12.00 per 1000.

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HOLLIS' SEEDLINGS OF 1890.

Nine distinct and choice varieties. Propective

prize winners of 1891 need them. Best

quality and lowest price.

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Send for descriptive list.

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New Perpetual Blooming Dwarf

SALVIA

"A. A. WETTIG"

Write for prices.

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LOW CASH OFFER.

Verbenas, Mammoth, no rust or mildew, stock

plants 3 to 5 cuttings \$1.15 per 100; Rooted Cuttings

10c per 100.

Geraniums, double, best and latest, new and old

varieties, 35 per 100. Rooted Cuttings \$1.50 per 100.

Pansies, cold frame plants, Trimardeux and Cas-

siers, extra fine, 10c per 100; 85 per 1000.

Roses, Mermes, Brides, Paris, Gontiers, etc.

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Anclepis Tuberosa, Lobelia Cardinalis, Platy-

codon, white Lily of the Valley clumps, \$1.00 per 100.

Rose and w. rose leaf Lily of Valley, 35c per 100.

Cumpley's Japan and German Iris, golden, lemon,

and double Brown Ladies Oriental Poppies, Hibiscus,

Larkspur, all everlasting Pen. Paeonias, and many

others. Virginia Creeper, Bignonia, Heliotropis,

Honeyuckle, Vinca—250,000 fine, highly decorative

plants VERY LOW. Catalogue on any of B. M.

WATSON, Old Colony Nurseries, Plymouth, Mass.

Propagation of Dahlias.

As Mr. Wm. F. Bassett asks for information in regard to propagating dahlias by cuttings, I will state my experience with them. Make a good hotbed of fresh horse manure about the first of March, put seven inches of light soil on the bed and when the temperature has gone down to 65°, plant your stock plants. Keep close for a few days, and water sparingly. In the course of two weeks the roots ought to sprout freely and by this time another hotbed ought to be ready to receive the cuttings. I do not advise to put them in a cutting bench but put the cuttings directly into 3-inch pots, using two parts of soil and one of sand; plunge the pots in the hotbed, or if you are in a great hurry, fill the whole frame with empty pots close together, and then fill your pots with soil, pressing it gently with a broom; the cuttings can now be inserted in the pots very quickly. In taking the cuttings, do not use a knife, but break the cuttings off with the fingers; this I consider very important and should the cuttings have become too long, I had rather pinch the tops off, than to cut anything off the base. Shade and keep close a few days, but guard against steam from the manure, and they will strike very easily.

After the cuttings are well rooted and hardened off, plunge them in the field three inches apart, that is if your object is to raise roots for sale. As the roots expand they will invariably break the pots, but having been confined in a small space they are solid which is a great advantage for shipping. I never tried to raise cuttings in the fall; even if it can be done, I do not see the advantage of doing so, as it necessitates keeping the cuttings in the greenhouse during winter. C. A. D.

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10,000 Pansies of the Jennings strains now ready. Large flowering, fine plants by mail 60c. by express \$5 per 1000. Carnation Snow Bird new, the finest white out, an immense bloomer, large flower, fringed & fragrant, extra strong grower, strong plants \$1.50 doz.; \$12 per 100. Pansy Seed \$1.00 per packet, large.

E. B. JENNINGS, box 76, Sou'hoor, Conn.
CARNATION, VIOLET AND PANSY GROWER.

LARGES' BEGONIAS

ARE THE BEST IN EXISTENCE.

Awarded Four Gold Medals, Gold Cup, and All the Highest Honors of First Prizes Wherever Exhibited.

Tubers, named singles, 12s., 18s., 24s., 36s. and 42s. per dozen; unnamed seedlings, 12s., 18s. and 24s. per dozen; seedling choicest, 4s. and 8s. per dozen; choicest named doubles, from 4s. per dozen; unnamed, very choice, 2s. and 3s. per dozen; choicest mixed, 12s. per dozen. The cheapest and best combined procurable. Small quantities can be ordered by sample post. Trial orders solicited. Wholesale and retail. Catalogues free by post.

JOHN LAING & SONS,
Begonia Specialists, Etc.,
FOREST HILL, S. E. LONDON, ENGLAND.

Tuberous Begonias

make fine pot plants and bedded out make a grand show until killed by frost. Although not new, they will be new to most people. While they don't look cheap, yet they are cheap; 100 plants mailed for \$3.00, or mixed colors \$2.75. Double ones, \$4.50; mixed, \$4.00.

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3,000 Gen'l Jacq. Rose plants, 4-in. pots, per 100, \$6.00. Culeas Cuttings rooted, Verschaffelii, Golden Bed, Golden Verschaffelii and Sunset, per 1000 cuttings, per 100, \$6.00.

JOHN RECK, Bridgeport, Conn.
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Send us a list of your wants to estimate on. It will be to your advantage to place an order early. Import prices touch the bottom. Quality of stock the high water mark. Send us an order.

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Among the contents are the following:

PROPAGATION BY SEED.
PROPAGATION BY STRATIFICATION.
PROPAGATION BY LAYERS.
PROPAGATION BY POLLINATION.

THE NURSERY LIST is an alphabetical list of all kinds of plants, with a short statement telling which of the operations described in the first five chapters are employed in propagating them. Over 2,000 Entries are made in the list. The following entries will give an idea of the method: **ACEB** (MAPLE). Stocks are grown from stratified seeds, which should be sown an inch or two deep; or some species, as *A. dasycarpum*, come readily if seeds are simply sown as soon as ripe. Some cultural varieties are layered, but better plants are obtained by grafting. Varieties of native species are worked upon common or native stocks. The Japanese sorts are winter-worked upon imported *A. polymorphum* stocks, either by whip or veneer-grafting. Maples can also be budded in summer, and they grow readily from cuttings of both graft and softwood.

PHYLLOCACTUS, PHYLLOCACTUS, DISCOCACTUS (LEAF CACTUS). *Cylindropuntia*. Fresh seeds grow readily. Sow in rather sandy soil, which is well drained, and apply water as for common seeds. When the seedlings appear, remove to a light position. Cuttings from mature shoots, three to six inches in length, root readily in sharp sand. Give a temperature of about 60°, and apply sufficient water to keep from flagging. If the cuttings are very juicy, they may be laid on dry sand for several days before planting.

GOOSEBERRY. Seeds, for the raising of new varieties should be sown as soon as well cured, in loamy or sandy soil, or they may be stratified and sown two-thirds their length, usually grow readily, especially if taken in August or September and stored during winter. Stronger plants are usually obtained by layers, and the English varieties are nearly always layered in this country. Mound-layering is usually employed, the English varieties being allowed to remain in layerage two years, but the American varieties only one (Fig. 27). Layered plants are usually set in nursery rows for a year after removal from the stools. Green-layering during summer is sometimes practised for new or rare varieties.

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THE BROOKS SISTERS, Sorrento, Fla.

GALT, ONT.—The Galt Horticultural Society will hold its fall exhibition September 2 and 3, and a chrysanthemum show November 11 and 12.

HAMILTON, ONT.—At the last regular meeting of the Gardeners' and Florists' Club, it was unanimously decided to hold a rose show in June and a chrysanthemum show in November. For the last few weeks business has been decidedly flat. The two elections held recently probably had some effect in curtailing sales. James Wild's greenhouses at Barton were destroyed by fire, March 1. Loss estimated at \$3,000 or more.

LONDON, ONT.—At the meeting of the Florists' and Gardeners' Club on the 2nd inst., the attendance was small, owing probably to the excitement incident to the Dominion elections. A communication was received from the Montreal Florists' Club suggesting the offering of a cup by the various clubs as a national prize, but owing to the small attendance consideration of the matter was deferred. A communication was received from the Toronto Florists' Club inviting the co-operation of the London florists in receiving the S. A. F. in Toronto in August next, and the secretary was instructed to reply that the florists of London would render every assistance in their power to make the visit of the S. A. F. to Canada one not soon to be forgotten. The committee on chrysanthemum show reported progress and suggested that a guarantee fund be raised. A subscription sheet was passed around and in a few moments a sufficient amount had been guaranteed to insure against any deficiency. It was also decided to offer a medal or cup for chrysanthemums at the show, which will be held about the second week in November.

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THE NEW YORK dailies are certainly very liberal in their notices of exhibitions of flowers and plants. The splendid orchid exhibition given recently at the Madison Square Garden, by Siebrecht & Wadley, received full column and even double column reports daily in all the leading New York papers, and what was of still greater importance to the projectors of the exhibition the same papers gave equally lengthy and elaborate advance notices. These liberal advance notices were undoubtedly an important factor in making the exhibition a financial success, and the daily press of New York should receive the thanks of the trade for its liberality.

A CORRESPONDENT writes describing a carnation at the establishment of Mr. John Moore, Little Silver, N. J., which is superior to Grace Wilder at that place, and which Mr. M. has named Isabella. He also advises us that a sample bloom has been sent, but it was either not received or was among a lot that faded without our being able to determine who sent them, through neglect to give name of sender on the package.

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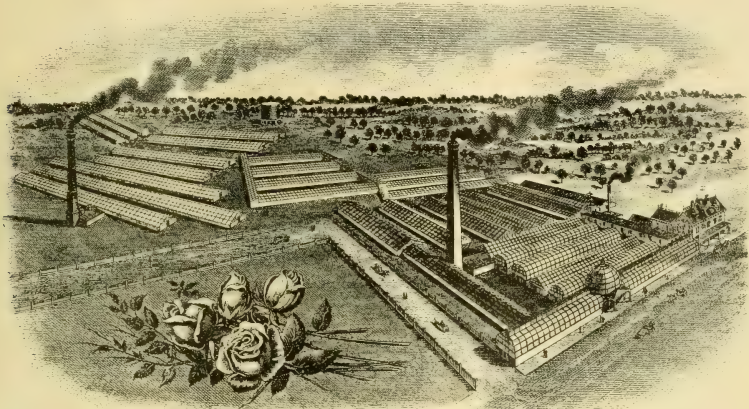
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Propagating Dahlias.

Replying to the inquiry of Wm. F. Bassett in the issue of March 5, page 520, AM. FLORIST, how to propagate dahlias. The old roots should be divided and placed on a bench with bottom heat about January 1, cover with dirt and keep moist, but not too wet until the growth starts, then water freely. Begin to make cuttings as soon as the new growth shows two joints, cut just below second joint thus allowing a solid heel. No cutting will root where the stem is hollow. Place the cuttings in sand same as roses, carnations or any other greenhouse plant. C. H. ALLEN.

FLORAL PARK, N. Y.

On page 520, Wm. F. Bassett asks for some information about the propagation of dahlias. My method is to plant the roots in the fall, as soon as they are thoroughly dry, in boxes of dry earth. These are placed under the benches and given no further attention until it is wished to start them into growth, when the roots are put on the benches and covered with earth. Shoots will appear in three or four weeks and when of sufficient size are pulled off and potted in ordinary soil in 2½-inch pots. These shoots will root through the pots in three weeks. When the growths are over three inches long it is well to cut the tops off and treat the same way. Care should be taken though to cut just below a joint as otherwise no buds for the following season will be developed at the base of the stem for new shoots to come from. Fall cuttings will root readily enough but will not mature in time to make roots worth preserving. The trouble with his dahlias probably comes from the fact of there being no dormant buds on the stems, which sometimes occurs under the best conditions; at the temperature given they should sprout quickly.

The most obvious plan for improving his canna is to raise seedlings from it or cross with other varieties and by judicious selections from the resulting plants, some improvement on the type will doubtless be secured.

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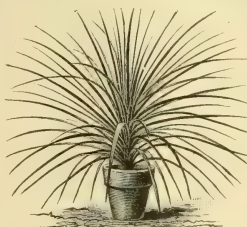
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1.50	15	150
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4.75	47.5	475
4.80	48	480
4.85	48.5	485
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4.95	49.5	495
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5.70	57	570
5.75	57.5	575
5.80	58	580
5.85	58.5	585
5.90	59	590
5.95	59.5	595
6.00	60	600
6.05	60.5	605
6.10	61	610
6.15	61.5	615
6.20	62	620
6.25	62.5	625
6.30	63	630
6.35	63.5	635
6.40	64	640
6.45	64.5	645
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Wall Flowers.

Subscriber of Yonkers, N. Y., asks for some information about wall flowers. For three or four years past I have grown a few both in the greenhouse and out side with the best success. Shade in summer while beneficial is not necessary, but in severe zero winter weather they are pretty certain to get scorched by the sun unless in a shaded situation such as the north side of a dwelling would afford. In lieu of this evergreen branches make a perfect protection from the sun rays for them or any other plants of similar character.

They bloom more or less constantly from earliest spring until autumn frosts stop their growth. Seed for out door plants should be sown this month or next and will make strong plants by next fall. Young plants should be raised every season as they seldom survive the second winter. If it is desired to grow them in the greenhouse seed may be sown any time and managed the same as ten-weeks or other stocks. They will bloom in six or eight months, but better results are always obtained from open ground plants lifted and potted in the fall.

They make fine house plants, especially for those in whose windows other flowers will not thrive owing to lack of sun or heat. They will bloom finely in such places and are not injured by slight freezing.

PERCY W. ARMSTRONG.

Arcola, Ill.

When corresponding with any of our advertisers please say that you saw the adv. in the AMERICAN FLORIST.

TOBACCO STEMS FOR FLORISTS.



For Sale, packed in bales 200 to 250 lbs.
No Charge for delivering to depots.

PRICE:
\$10.00 per ton, \$1.50
per single bale.

ADDRESS

P. C. FULWEILER

923 Arch Street, PHILADELPHIA, PA.

Mention American Florist.

THE AMERICAN FLORIST CO.'S

TRADE

DIRECTORY

OF FLORISTS,
NURSERYMEN,
SEEDSMEN,

OF THE

UNITED STATES AND CANADA,

1890.

No one in the Trade can afford to be without it.

PRICE, \$2.00.

ADDRESS:

AMERICAN FLORIST CO.

54 La Salle Street, CHICAGO.

FOR 1891

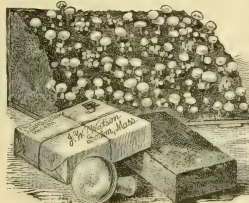
We are in better shape than ever to give our critical friends in the Florist trade good service. Our Trade List has been mailed.

Send for a copy if you have been omitted

OUR STRAINS OF

Aster Cyclamen Primula
Mignonette Petunia

And other Market Plants are extra fine, and we confidently recommend them. Try a 25c. trade packet of our Truffaut's Improved Pæony-Flowered Perfection Aster as a sample.



MUSHROOM SPAWN

GARDINER'S GENUINE MILLTRACK is now well known, and is used by nearly all the large growers. Always fresh and reliable. Don't waste your money on old spawn that was poor enough even when fresh. Get the genuine, fresh, well-spawned Milltrack from JOHN GARDINER & Co. 10 lbs., \$1.20; 25 lbs., \$2.75; 50 lbs., \$5.00; 100 lbs., \$8.00. Special rates on large lots. Our pamphlet, "Mushrooms for the Million," free. ROBINSON'S "Mushroom Culture," new edition, 50c., post free.

JOHN GARDINER & CO.

Seed and Bulb Growers,
Importers and Dealers,

PHILADELPHIA, PA.

Mention American Florist.



You will want

A full stock of the NEW LARGE-FLOWERING BEGONIAS this season. They will be more popular than ever. Immense variety of colors, large and fine. Singles, \$8.00 per 100; doubles, \$15.00 per 100.

We pride ourselves on the quality of our GLADIOLI this year—\$1.50 and \$2.00 per 100 for fine mixed and superfine mixed. TUBEROSES; large, plump and sound. Excelsior Dwarf Pearls, \$1.50. CALADIUMS, extra selected large tubers, \$9.00 per 100.

JAPANESE LILIES, TIGRIDIAS,
AMARYLLIS, ETC.—FINE STOCK.



I TOLD THE TRUTH

In January when I said "I am on time." But how the florists did turn in and "bust up" the time! When the ad. became a well-prevarication, let us say—I hadn't even time to think of it, and a kind customer finally hinted that it was stale, and—something else! Well, I've been trying to scratch out and up and through the mountain of work January dropped on me from "all over," and think I can still print catalogues for the late comers; good catalogues, too. I thank you all, even though I've been heartily "cussed" for not being able to work my place more than 23 hours out of 24. Send along, now, anyway.

J. HORACE MCFARLAND, HARRISBURG, PA.

The Pink Ostrich Plume
CHRYSANTHEMUM,

LOUIS BOEHMER

Fine Plants, \$5.00 Per Dozen. Cash.

H. W. BUCKBEE,

ROCKFORD, ILL.

Begonias! Begonias! Begonias!

I was one of the first in England to handle Begonias, and for some years immense quantities passed through my packing sheds annually, and I was very sorry to be compelled to relinquish their cultivation; **HARDY PLANTS** then demanded all my attention, and these were first, but I have always "kept touch" with the Begonias, as I made up my mind to "pick them up" at the first opportunity. For some time past I have been assiduously working at the **BEGONIA**, I have also been gathering from every known source everything considered superior, and I trust ere long to make my collection second to none. I purpose making

BEGONIAS A GREAT SPECIALTY AT TOTTENHAM.

My knowledge of this family is wide and the facilities for knowing every collection, both private and public, in England and the Continent, has enabled me to secure everything that I consider of great value, especially those possessing **NEW POINTS OF MERIT**, as my aim will be to **WONDERFULLY IMPROVE THE BEGONIA**. I am convinced that but few people can have yet any conception of the capabilities of the plant. I have an **IMMENSE STOCK OF SINGLES AND DOUBLES**, all carefully graded last season, containing every shade of color and those which yield flowers of the largest size combined with perfection of form and improvement of type. In the hope of further developing this attractive flowering plant, I shall plant some hundreds of thousands for next season's show, and I shall be very pleased to exhibit them to any of my friends, who, I am sure, will be surprised at both quality and quantity. **SPECIAL PRICES** for Tubers for present delivery on application.

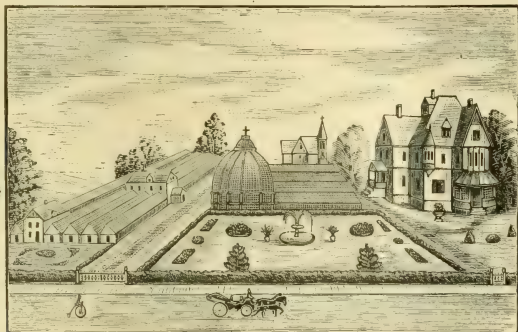
DAFFODILS AND NARCISSEUS.

I shall have an enormous quantity of these to offer for **Fall Delivery**. Special prices on application as the season advances.

THOMAS S. WARE,

HALE FARM NURSERIES.

TOTTENHAM, LONDON, ENGLAND.



FOR SALE: 20,000 well established, healthy free-flowering Orchids that will bring a handsome return the first season. Send for Catalogue.

WILLIAM MATHEWS,

YORK STREET,

UTICA, - - - NEW YORK.

Lilies, Etc. for Easter

HARRISII,

LONGIFLORUM,

CANDIDUM.

—Prices on Application.—
GERANIUMS, Single & Double, of the leading varieties, 2½-in. pots, at \$4 per 100; \$5 per 100.
HYDRANGEA OTAKSA, from 5 to 10-inch pots, \$15 to \$50 per hundred.

W. A. BOCK, N. Cambridge, Mass.
Mention American Florist.

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:

25,000 Dwarf budded Roses in sorts.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Pontica in sorts.
2,000 Clematis, extra strong plants.
Trees, Shrubs, Evergreens, Conifers, Pæonias and other herbaceous plants.
PLANTS FOR FORCING AND DECORATING.

Address P. OUWERKERK,
P. O. Box 1845, NEW YORK CITY.
Catalogue on application.
Mention American Florist.

3,000,000 HARDY CUT FERNS

MOSS, Sphagnum and Green Sheet.

BOUQUE GREEN & FESTOONING
of all kinds always on hand. In fact
anything that grows wild.

HARTFORD & NICHOLS,

18 Chapman Place, BOSTON, MASS.

CLEMATIS—3, white, blue, purple, 25 cents. Fine plants in box. Same post free.
CUCUMBERS—Rollison's Telegraph, 50 seeds 2 cts.; 125 seeds, 50 cts.; 1000 seeds, \$2 50.
10 Show varieties, 25 cents. Large stock of both.
A. BROUNT, Rotherfield, England.

Discounts to Amateurs.

What discounts are the proprietors of private places entitled to on plants, seeds, bulbs, etc.? Should they receive the same discount as the florist, who buys to sell again; even if they buy the same amount? INQUIRER.

[We believe the rule is supposed to be that even where quantity purchased at one time is the same, the consumer should be charged a higher rate than the regular wholesale price to dealers, though if he buys in large quantities, he is entitled to a rate somewhat lower than if he bought the usual small retail quantities.—Ed.]

MR. THOMAS MEEHAN, Germantown, Philadelphia, for many years editor of the *Gardeners' Monthly* which ceased with the death of the publisher a few years ago, has issued a prospectus of a publication to be named "Meehans' Monthly" and to be published by himself and three sons. It will be devoted to general gardening and wild flowers and will undoubtedly find a place for itself. The subscription price is \$2 a year. The new publication has our best wishes for its success.

PLEASE do not fail to mention the AMERICAN FLORIST every time you write an advertiser.

PRACTICAL TESTS.

UNIVERSITY OF CALIFORNIA,
AGRICULTURAL EXPERIMENT STATION,
BERKELEY, August 22, 1899.

MESSES. MORRIS, LITTLE & SON, BROOKLYN.
Gentlemen—In regard to the sample of insecticide submitted by you for trial, I beg leave to state that the preparation has been used on apple trees with the following results: First, four ounces of the insecticide were added to one gallon of water and applied to woolly apple tree with a spray pump. The insects were killed wherever touched by the wash, the result being that the material is effective wherever contact with the body of the insect can be secured. Second, one-half ounce of the insecticide was added to one gallon of water and application made by spray to the recently on rose bushes; the insects were killed on all sprigs reached by the spray. The amount of material submitted for experiment was too small to admit of large scale experiments, which would be desirable. Very respectfully,
(Signed) E. J. WICKSON,
Assistant Superintendent Agricultural Grounds.

FLORENS, L. I., June 25, 1899.

Dear Sirs—I have found your Little's "Antipest" very efficacious in destroying the insects injurious to plants, without affecting the plants in any way. I regard it as the best insecticide that I have used, and I would not be without it. It is easily applied, very effective and can be used with safety. Yours truly,
JOHN HENDERSON CO.

409 FIFTH AVE., NEW YORK, Jan. 12, 1891.

Dear Sirs—We are most willing to testify to the good quality of "Little's Antipest." It is the best and most effective insecticide we have ever used. You can send us another 10 gallons. Yours truly
SIEBRECHT & WADLEY.

QUEENS, N. Y., Jan. 8, 1891.

Dear Sirs—I have been using Little's "Antipest" since last September and have no hesitation in recommending it as by far the best insecticide I ever used. While it is true that I have used it, there is no trace of the compound left on the foliage of plants. Please send us the same quantity at our earliest convenience. Respectfully,
JAMES MACKAY,
Foreman V. H. HAMES GARDEN.

PHILADELPHIA, Pa., Dec 3, 1890.

Dear Sirs—I have been using your "Antipest" for several months for washing Palms, to destroy scale, and I find it valuable for that purpose. Yours truly,
JOHN BURTON.

187 BROADWAY, BROOKLYN, N. Y.

Dear Sirs—I have used Little's "Antipest" for nearly a year and must say that it is the best I have found to do the work effectively having used various other insecticides before without good results. Respectfully yours,
W. C. KRICK.

DAHLIAS



R. GEORGE.

THE STORRS & HARRISON CO.,
Painesville, Lake Co., Ohio.

In Preparing for the Spring Trade Don't Overlook

PLATYCODON GRANDIFLORUM.

One of the Best Hardy Flowers, and of Real Merit.

Hardy as a Phlox; about as desirable for cut flowers as Sweet Peas, but Blooms all Summer till cut by frost. We are growing 3,500 of it, showing our idea of its value for Florists' use. Two varieties, Deep Blue and Pure White, true, strong, field-grown plants, per doz.; \$6.00 per 100.

COREOPSIS LANCEOLATA.

A fine, hardy bright golden yellow flower on long, wiry stems, well above the foliage. Blooming all Summer, desirable as cut flowers, very stylish and sells well in large clumps, field grown \$2.00 per doz.; 3¢ each, pot grown, 50¢ per doz.; \$3.00 per 100. Correspondence solicited.

NOTE.—The above, if planted early, will bloom freely all next season.

DAHLIAS.

All choice and new kinds (on request). Single, Large-flowering, Cactus and Bouquet. Large, new field-grown tubers, 50¢ per doz.; 85¢ per 100.
Per doz. Per 100.
Honey suckles, best varieties field grown, Akelia Quinata, field grown..... 1.00 8.00
Akelia and Honey suckles pot grown, nice strong stock..... 0.50 3.00
Amelopsis Veitchii, field grown..... 75¢ per doz. \$6.00 per 100. 4.00 30.00
Chrysanthemum t. Hignom, the Giant Daisy, white, clump..... 1.00 8.00
Achillea and Anemone Jap. Alba and Rosa, young stock..... 0.50 4.00
Caldium Escutellum, large fine bulbs, 4 to 10 in diameter..... 0.75 6.00
Eutalia, Uniflora, new 2¢ in pots..... 0.75 6.00
Chrysanthemums, best new and old kinds. Rooted Cuttings..... \$1.00 per 100; \$7.00 per 1000
Colums, best varieties, and Vinca Variegata. Rooted Cuttings..... 1.00 7.00

WANTED IN EXCHANGE:

Pearl Tuberoses, Gladioli, colors mixed. Fancy Caladiums. Correspondence solicited. Write now.

HARRY CHAPPEL,
WILLIAMSPORT, - PENNSYLVANIA.

Money in Gros Colman Grapes. Six hundred and thirty-two dollars in one season from forty Gros Colman grape vines in a sixty-four ft. house, single pitch. No expense, except one and one-half tons of coal, and a very little labor. Gros Colman Grapes sell wholesale readily from \$1 to \$4 per pound according to quality and season. They would pay at 50 cts. per lb., or less. Everyone can have a paying grape by planting well rooted Gros Colman vines, from healthy stock, such as mine. My vines have always been perfectly healthy and vigorous and very productive. Well rooted cuttings ready this spring, one dollar each, cash with order. Express paid by purchaser. For further information address,

ALFRED E. BAKER, Norwytiden Graperies, WEST CHESTER, Pa.
N. B.—We endeavor also to keep in stock the best old and new varieties of carnations, rooted cuttings, plants and blooms—violet blooms and plants, mushrooms, strawberries and tomatoes.

Magnolia Grandiflora.

I am the largest grower of Magnolia Grandiflora in the world, and have them from five inches to five feet high, including all the intermediate sizes. Write for prices.

L. C. LISCHY,

L. B. 145. NASHVILLE, TENN.

DOUBLE WHITE PRIMROSE PLANTS.

Fine, large, healthy plants, from 3, 4 and 5-in. pots, at \$10, \$15 and \$20 per 100.
Dracena indivisa, from 2, 3 and 4-in. pots, at \$4, \$8 and \$10 per 100, strong stock.
Palm a. a. a. 4-in. pots, \$12 per 100.
Also Single Primrose, Calceolaria rugosa, Callas, all sizes; Smilax, Echeverias, Alternantheras, etc.
Also the new and leading varieties of Coleus, Geraniums, Chrysanthemums, Roses, Violets and other stock. Write for price list.
HENRY SMITH, 130 Monroe St., Grand Rapids, Mich

WE BOOK NOW.
 Roman and Dutch Hyacinths.
 Paper whites, Daffodils and
 other Narcissus, Tulips,
 Freesia, Spirea, Crocus,
 Lilium, — Harpissil,
 Candidum, —
 Longiflorum,
 Auratum, Calla,
 Lily of the Valley,
 &c. &c.

ORDERS FOR SUMMER AND FALL DELIVERY

ROSES.
 PALMS.
 AZALEAS.
 CLEMATIS.
 RHODODENDRON.
 LAURUS TINUS.
 LAURUS NOBILIS, &c.

TERMS AND ESTIMATES ON APPLICATION

ADDRESS:
AUGUST RÖLKER & SONS,
 136 & 138 W. 24th St.,
 ADDRESS LETTERS: STATION E.
NEW YORK.

HAMMOND'S

* PAINT WORKS, *

Located at the N. E. Corner of the Long Dock.

Fishkill Landing, - - New York.

Grind Lead Zinc and Colors.

Deal in Dry Colors of all kinds in quantities to suit.

Make Liquid and Japan Dryers.

COTTAGE COLORS.

A pure Linseed Oil Paint of the best quality, in various shades of color suitable for Greenhouses.

Farm or Bridge Paints, cheap, substantial colors.

Iron Paints for Pipes or Boilers.

Brushes, Sand Paper and G'lue. Linseed Oil, Raw and Boiled, Kerosene Oil, Benzine, Naphtha, and Gasoline, Oils and Chemicals.

French Window Glass, Standard Putty and Liquid.

YOUR TRADE is solicited. Prices made delivered at your R. R. depot wherever that may be.

BENJAMIN HAMMOND.

Fishkill-on-Hudson, N. Y.

CAPE COD PINK POND LILY.

For price list, Plants and Cut Flowers, address the original cultivators,

Chipman Bros.,

SANDWICH, (Cape Cod), MASS.



EXCELSIOR ODORLESS FLOWER FOOD.

\$400.00

In cash prices, as follows:

To the Florist selling the greatest quantity, \$50
 " 5 Florists " " next " " 25 "
 " 5 " " " quantities, 20 each
 " 5 " " " " 15 "
 " 10 " " " " 10 "
 " 10 " " " " 5 "

GIVEN TO

All those selling Excelsior from March 1st, 1891 to March 1st, 1892, and in addition every Florist who sells one gross will get \$2.50 in case he fails to win one of the above prizes. Write for further particulars. This offer is extended only to

RETAIL FLORISTS.

EXCELSIOR FERTILIZER CO. 121 FRONT STREET, NEW YORK.

DON'T

Look on while others make the money. Roll up your sleeves and get to work, and make some yourself.

YOU

Can do it just as well if you will only make the effort.

CATCH

Hold now. Remember every package you sell means money in your pocket, besides the prizes we offer. So waste no time but work to win the highest prize. There should be no let up in your efforts from now

ON.

IT is in half pound boxes with handsome labels in 5 colors—a magnificent package, and an ornament to any store. We have reduced the price to \$10 per gross and will accept orders of one-quarter gross (3 dozen) at a time at this price from those who try for the prizes. Package for trial will be mailed to any florist on receipt of ten cents.

READ.

Dingee & Conard Co. say: "It will promote a healthy and vigorous growth of foliage and on flowering plants an abundance of bloom. This valuable fertilizer has no disagreeable odor, and takes the place of liquid manure which is always so difficult to obtain, and unpleasant to handle. We advise every one who grows flowers to give the EXCELSIOR FERTILIZER a trial."

Carnation Lamborn.

In reference to carnation Lamborn my experience has been this: After two seasons' trial I find it a capital summer bloomer, and it does well in houses as long as the sun is high, but in latter part of November, December, January, February and March it is positively of no value for cut flowers. The stems are weak and brittle, flower does not expand, and it is well nigh impossible to get it into growth. I with several others, have discarded it, and my advice is, do not plant it.

C. E. BAUMANN.

Railway, N. J.

Hot Water Under Pressure.

In March 5 issue Subscriber asks me to answer a few questions and I cheerfully comply. I consider three 2-inch pipes equal to heating as much as two 3-inch, and four 2-inch equal to two 4-inch pipes. I prefer the expansion tank directly over the boiler with aircocks on the highest points of the pipes. In regard to fuel we use 20 per cent less by above system, than by using steam.

C. A. D.

BLUE ROSES.—A correspondent sends us two letters he has received from nurserymen, one enquiring where he can get a supply of blue roses and the other sending a straight order for them, evidently without the slightest doubt that the plants would be at once forthcoming. There seems to be still abundant room for education, even among the nurserymen. Our correspondent says: "We have numerous enquiries of this sort from amateurs but to receive them from nurserymen is to say the least surprising."

DETROIT.—The greenhouses of Charles Warnock at Woodmere, which were destroyed by fire December 4th last, have been entirely rebuilt and are now in good running order. Charley's fellow florists came to his assistance and stocked him up, so that he is in shape for the Easter trade.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
56 N. 4th Street,
PHILADELPHIA, PA.

Mention American Florist.

ESTABLISHED 1866.

Floral Wire Designs.
Manufactured by
N. STEFFENS,
335 East 21st Street, - NEW YORK.



FLORAL DESIGNS.

The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address (with \$3.50 for the book)

J. HORACE McFARLAND,
Box 655, HARRISBURG, PA.
Mention American Florist.

THE AMERICAN FLORIST.



FANCY.

DAGGER

EVERGREEN
CUT FERNS.

Especially for Florists' Use.

\$1.50 per 1000 Ferns.

DISCOUNT ON LARGE ORDERS.

Special attention paid to supplying the Wholesale Trade. Write for prices.

BOUGREE GREEN for Holiday Trade \$2.00 per 1000 (30 lbs.); or \$1.00 per 100 lbs.
SPAGNUM MOSS A Specialty. Long clean fibre, dry or green, \$1.00 per barrel or six barrels for \$5.00. Write for terms on large lots.

CHRISTMAS TREES American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for Price List and Terms.
CITY STAND DURING THE HOLIDAYS.
47TH ST., and LEXINGTON AVE., NEW YORK.

L. B. BRAGUE, Hinsdale, Mass.

PLANET JR.

IMPROVED FARM AND GARDEN TOOLS FOR 1891.

BETTER. Both Horse and Hand, THAN EVER, better and more money saving. We can not describe them here, but our new and handsome catalogue is free and interesting. A goodly number of new tools will meet your eye here. Among these Gardener's Harrow, Cultivator and Pulverizer, combined adjustable tooth; Market Gardener's & Beet Grower's Special Horse Hoe with Pulverizer; Special Furrower, Marker and Ridger, adjustable wings; Sweet Potato Horse Hoe, four tooth with vine turner; Heavy Grass Edger and Path Cleaner; new Nine Tooth Cultivator and Horse Hoe combined; Special Steel Leveler and Pulverizer combined; all interesting, nothing we have ever made so practical or perfect. Some improved things too are grafted upon our older favorites. A capital LEXER WHEEL, instantly adjustable for depth, is a great feature; put on all '91 goods unless ordered otherwise. Nor have our Hand Seed Drills been forgotten in the march of improvement, nor our Double and Single Wheel Hoes, Garden Plows, Grass Edgers, Etc. Some of them are greatly altered for the better, yet do not forget that no novelties are adopted by us without actual and exhaustive tests in the field. We therefore guarantee everything exactly as represented. Send for Catalogues now.



S. L. ALLEN & CO., Philadelphia, Pa.

THE MALTESE CROSS BRAND
THE VERY BEST OF GARDEN & LAWN
HOSE
TRADE MARK
if your dealer does not have it, send direct to the manufacturers
THE GUTTA PERCHA & RUBBER MFG. CO. CHICAGO

RUNDLE-SPENCE MFG. CO.,

MANUFACTURERS OF

GREENHOUSE * PIPE * AND * FITTINGS,
QUALITY GUARANTEED.

193 LAKE ST.,

63-69 SECOND ST.,

CHICAGO, ILL.

MILWAUKEE, WIS.

PERUVIAN
NITRATE
SODA

Should be better known and more largely used by intelligent Farmers, Truckers, Florists, Nurserymen and Gardeners. Wherever NITROGEN or AMMONIA is needed NITRATE OF SODA supplies the want in the most available and cheapest form.

Constant Supply in Warehouse.

Cargo shipments from South America.

Regular Direct Importations.

Highest Grade. Original Bags. Quotations on application.

CHAS. F. PITT & SONS, IMPORTERS,

Established 1836.

No. 31 South St. & BALTIMORE, MD.

THE CEFREY FLORISTS LETTER CO.
Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.

WHEAT DESIGNS OF EVERY DESCRIPTION.
N. F. MCCARTHY, Mgr. Address
JOHN B. OLIPHEN, Asst. Mgr. 13 Green St., BOSTON.

A FEW WORDS ABOUT CYPRESS

LUMBER.

LITTLE'S ANTIPEST

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

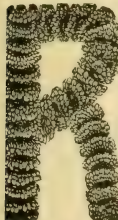
— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis and Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap**. No fruit grower or florist should be without it.

Send for circulars and price list.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens County, N. Y.
Mention American Florist.



Florists' Letters.

Emblems, Monograms, Etc. These letters and designs are made of the best immortelles, wired on wood or metal frames, having holes drilled in them to insert tooth-picks, by which they are fastened to the design. Give them a trial. You will find these goods to be superior to any in the market. PAT'D AUG. 6, 1888.

NOTE—All infringers or imitators of the above letters and designs will be prosecuted to the fullest extent.
Send for Sample.
2in. purple. per 100 \$3.00
Postage, 10cts. per 100.
W. C. KRICK,
1287 Br'dway, Brooklyn, N.Y.

AGENTS:
J. C. VAUGHAN, Chicago, Ill.; H. BAYESDORFER & Co., Phila., Pa.; EDWARD S. SCHMID, Washington, D. C.; JAMES VICK, Rochester, N. Y.; J. A. STAMERS, Toronto, Ont.

CATALOGUES.

FLORISTS
and
SEEDSMEN
write to

The Aldine Printing Works, Cincinnati, O., for samples and prices before ordering elsewhere.

[Mention The American Florist.]

IT IS A GOOD THING. And like all good things has come to stay. A few doubting "Thomas" still say with the old fogey around the corner that Pine lumber is good enough for him. This little adv. is not for his kind, but for the wide-awake men who find it pays to build in their repairs at the same time they build their house. The time has gone by when it paid to build a so-called cheap commercial greenhouse.

CYPRESS IS BRIGHT, STRAIGHT GRAINED AND DURABLE, in short it is the best wood we know of for greenhouse use. We ought to know something about its good qualities, having worked it largely for ten years past where durability was a requisite. We called the attention of Florists to this feature at the second National Convention at Philadelphia. Our customers write, "We never knew what good lumber meant before" and "the Cypress you sent us is way ahead of white Pine in quality and we hope in durability." Our carpenter says he never worked such good lumber. We are familiar with greenhouse construction, and make a specialty of

SASH BARS, CUTTERS, RIDGES AND SASH, ETC.

Our bars are carefully packed in iron-bound crates, and always reach their destination in good shape. We make but one quality of goods and that the best.

We solicit orders from European Florists.

ADDRESS FOR CIRCULARS AND PRICES,

LOCKLAND LUMBER CO.,

LOCKLAND, OHIO, U. S. A.

WE STILL LEAD, OTHERS TRY TO FOLLOW



To whom was awarded the **Only First-Class Certificate of Merit** for "Standard" Flower Pots, at the Sixth Annual Convention of the Society of American Florists, held at Boston, Mass., August 22d, 1890? We were. Why? Because we manufactured and exhibited the **only true "Standard" Flower Pots**, and of which we claim to be the **only manufacturers** at the present time.

FOR REDUCED PRICE LIST, ADDRESS

THE WHILLDON POTTERY COMPANY,

713 & 715 Wharlon St., PHILADELPHIA, PA.

AGENT FOR NEW ENGLAND STATES:

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PUB. ASSO.,**
St. Louis, - MO.

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Buffalo.

The annual election of the Buffalo Florists' Club was held the evening of March 11, at the Audubon Club parlors. There was a large attendance and the election resulted as follows: President, William Scott; Vice-President, John F. Cowell; Secretary, Daniel B. Long; Financial Secretary, George Asmus; Treasurer, Joseph H. Rebstock; Members Executive Committee, E. J. Mepsted, William B. Miller, Charles Keitsch. The meetings of the clubs will be held until further notice on the second and fourth Tuesday evenings of each month at the Audubon parlors.

An inviting supper had been spread in one of the club-rooms and after the meeting the members sat down to it. When it had been done full justice President Scott spoke of what had been accomplished by the club during the short period of its history. He showed that the club had already done much to advance the interests of floriculture in Buffalo. The financial condition of the club he said, was satisfactory. The secretary, Mr. Long, responded to the toast, "The Buffalo Florists' Club," and among other toasts were: "The Grower," Wm. C. Keitsch; "Science in Floriculture," J. F. Cowell; "The Retailer," W. A. Adams; "Art in Floriculture," J. M. Palmer; "Pastimes of Our Business," E. J. Mepsted; "Greenhouse Plants and Park Decoration," Supt. William McMillan; "The Amateur Florist," J. L. Moore; "The Economy of Heating," E. L. Cook; "Division of Labor in Our Business," J. H. Rebstock; "The Ladies of Our Business," William Belsey; "Our Young Members," George Asmus; "What There is in Soil," B. Myers.

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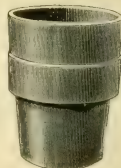
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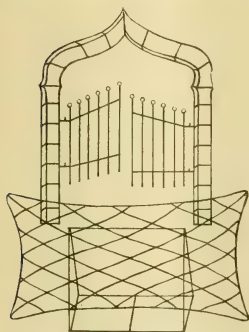
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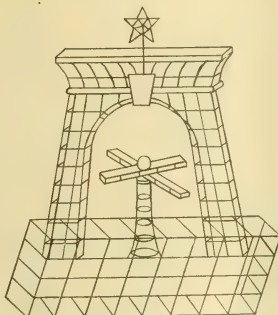
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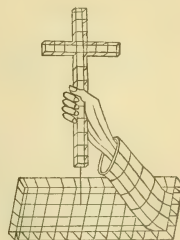
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Chicago.

Trade is still very slow but all feel assured of a good Easter trade. That there will be an abundant supply of flowers is certain.

The Horticultural Society of Chicago will give the fall exhibition or chrysanthemum show; at least the exhibition will be given under its auspices and it will supply the cash to provide against any deficiency though members of the Florist Club will have to attend to the details of arrangements.

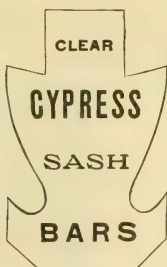
At the meeting of the Florist Club held last Thursday a committee was appointed to arrange a schedule of premiums for the fall exhibition and other matters in connection with the exhibition were considered. The present status of the horticultural department at the World's Fair was also discussed. One new member was added to the roll in the person of Mr. Samuel Batson now of Maywood Ill., formerly of Orilla, Ont. At the adjourned session 211 was the best score.

Joseph Curran mourns the loss of his baby girl, an only child. The loss is a severe one to Mr. Curran for he was exceedingly fond of the little one.

For the fall exhibition there will be a guarantee fund of \$1,000 provided by the Horticultural Society to be used in case of a deficiency. The society also has under consideration a plan for a Horticultural Hall. The society found the same difficulty that the Florist Club had experienced in securing a suitable place for the holding of exhibitions.

Mr. E. Mailander has purchased the business of C. & A. Frauenfelder at 1602 West Madison St.

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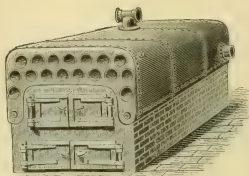
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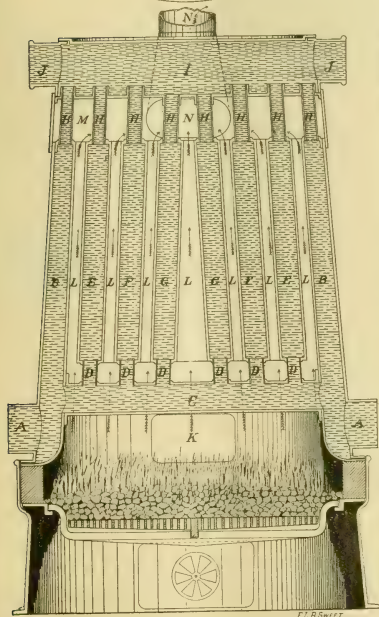
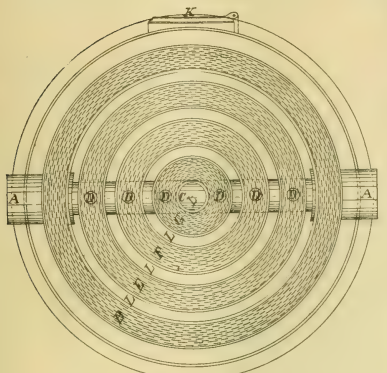
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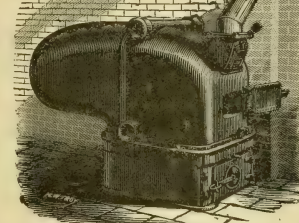
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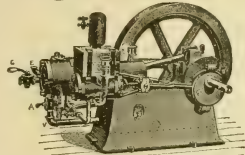
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Vol. VI. CHICAGO AND NEW YORK, MARCH 26, 1891. No. 147.

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Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

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M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; WM. J. STEWART, 77 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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MAY the Easter sales be larger than ever and at fair prices.

WE are receiving numerous congratulatory letters regarding our Easter number.

Spring Show Penna. Hort. Society at Philadelphia.

The Pennsylvania Horticultural Society this week open its doors to the public on Tuesday evening, the 17th, to view one of the best spring shows, yes, in some particulars the best spring exhibition ever held by the society.

The displays of orchids made by both H. A. Dreer and the Evans' Rowlandville Nurseries—while not out in great variety—there were many interesting features of the collection. Mr. Evans broke away from the old and beaten track and displayed his plants on a cedar tree. The tree was secured erect and must have been quite ten feet high; the limbs were shortened to within a few feet of the trunk and the dendrobiums and other plants were suspended therefrom. There were three or four dozen plants of D. Wardianum, well flowered, and among which there were a number of the better varieties. Nearer the base were a few plants of the Mexican tulip (Cattleya citrina) with its beautiful yellow flowers, and some Odontoglossum crispum. Around the base of the trunk were bedded in moss many anthuriums and several species and varieties of cypripediums. The one which attracted the most attention was C. Harrisonianum. Thereason for this was on account of the announcement recently made of the death of John Dominy, at the ripe old age of 75. This hybrid cypripedium was the first one ever raised in cultivation from seed, and Mr. Dominy was the raiser. It is the result of a cross between C. villosum and C. barbatum; Mr. Dominy naming it after Dr. Harris, of Exeter, England, who first suggested the possibility of crossing orchids, particularly cypripediums.

In H. A. Dreer's exhibit were: Angreum citratum, Cypripedium Harrisonianum, C. Lawrenceanum, C. villosum, C. niveum, C. argus, C. callosum, C. Lowii, C. venustum, Dendrobium pruinatum, D. Devonianum, D. transparens, Phaleonopsis amabilis, P. Schilleriana, Leptotes bicolor, Odontoglossum Rossi majus, Cattleya Triane, Oncidium ampliatum, Chysis hutchinsonii, and two very large plants of Cyrtopodium Andersoni. This orchid had never been seen here before. It is an excellent one for exhibition, and decorative purposes generally. It makes such a large plant and its immense spikes of spotted yellow flowers are very attractive.

The new or rare plant for which Thos. Long received first premium was Spathiphyllum pictum. It is an aroid and suggests the dieffenbachia, a member of the same family, but the leaves of the former appear to have more of an erect tendency of growth than the latter. According to Nicholson the proper name of this plant is Rhodospattia picta.

Mr. Long, who is gardener to A. J.

Drexel Esq., had also a rare and choice collection of palms. I noticed in it Chamaedora elegans, Livistona altissima, L. Hoogendorpii, Geonoma Seemannii, Phœnicophorium sechellarium, Arcua Verschaffeltii and several others.

A new azalea named Vervaeckiana was exhibited by James Dean, Bay Ridge, Long Island. It is certainly the best azalea in cultivation. It is similar in marking to old Souv. de Prince Albert, but the flowers are larger and brighter in coloring. It is a double flower of great substance and measures fully six inches over. Mr. Dean has upwards of two thousand plants of this variety. So well did he like it, that when in Europe last summer he secured all the available plants of it that he could get.

Half a dozen of Azalea rustica were shown by Pitcher & Manda, Short Hills, N. J. The flowers are mostly double and they appear to belong to the mollis section. It is perfectly hardy and forces quite readily.

A collection of decorative plants came from the conservatory of the president—Mr. George W. Childs. A large plant of Liatris borbonica occupied a prominent position in the hall; its broad and spreading leaves made it conspicuous and added much to the effectiveness of the decorations. Mr. John M. Hughes, the superintendent at Wootton, is very proud of this plant and justly so, as it is questionable if there is another such plant within many miles that would be available for this purpose.

The carnation display was better than has ever been attempted heretofore. Mr. H. E. Chitty carried off many of the prizes in the different classes. His 25 Tidal Wave were very fine. Mr. J. C. Chambers' Grace Darling was away ahead of Grace Wilder. Mr. Chambers new variety is an acquisition; the flowers are larger than the Wilder, equally as good in color and apparently a stronger grower.

"The Mammoth Pearl" is a new one, though it was put on exhibition by both Mr. Chambers and Mr. Edward Swayne; but whether it came from one place or not, I had no means at hand of finding out. It is very large, white dashed occasionally with pink. Mr. John McGowan had Lizzie McGowan, Louise Porsch and two others on exhibition. One in color reminded us of rose Mme. Cusin, though there was more yellow in the carnation. It was very pretty. Louise Porsch is a yellow of the style of Buttercup, though the flowers of the new one were not as large as the Buttercups put on exhibition by Mr. Chitty and Mr. Chas. F. Starr. It is however more yellow than the old sort, not having so many red stripes. We are assured that Louise Porsch is a healthy grower and a free bloomer.

The seedling carnations sent by Messrs.

E. G. Hill & Co. created a sensation on being presented to the public. Both John Westcott, of Pennock Bros., and Robert Kift, of Jos. Kift & Son, declare they have never seen such magnificent carnations before. Mr. Westcott further said that he is beginning to think that John Thorpe was not joking when he predicted that flowers of the carnation would be four inches across inside of five years. Most of Messrs. Hill's carnations were on stout and erect stems, large flowers, do not burst the calyx and were decided and pleasing in the shades and colors. The petals were not in a confused mass, but were nicely disposed and this is an excellent character to develop in carnations. In noticing the most striking among them, we descriptions shall be as brief as possible.

John Thorpe struck me as being the star of the aggregation. It is large in size and delicate pink in color. Sea Gull seemed to be the best white, though White Dove came very close. Mme. Reynolds, delicate pink; Mme. Albertine, blush, large; Frank McGregor, red, large; Exquisite, white delicately striped pink; Ben Hur, soft pink; Vulcan, crimson, large; Snowbird, pure white; Mary Hill, delicate pink; Fred Dorrer, scarlet, large; Evangeline (22 flowers of this were sent, which were cut from the seedling plant), pure white.

They were received in good order, but the warm exhibition hall and the escape of the death-dealing illuminating gas very soon caused them to wither. Carnations, which everybody knows, generally speaking, remain in good condition much longer than roses, but it was not the case at this show, the Divine Flower showing signs of distress some time before the roses. Mr. Starr's Wm. F. Dreer attracted a good deal of attention; it is large in size and a shade of pink different from any other variety with which I am acquainted. It is lighter in color than Century and that type, yet darker than the Grace Wilder.

The Lilium Harrisii exhibited by Michael Sammon, gardener to Joseph H. Shoemaker Esq., were the finest ever seen in Philadelphia; the foliage was perfect and the flowers were numerous and of greater substance than is usual in this variety.

The "Gardiner Prizes" brought out some very interesting contributions. Henry Surman, gardener to E. W. Clark Esq., secured most of the prizes.

The Japanese miniature trees exhibited by Dr. Edward H. Williams fairly divided the interest with the other main features. It is said that the trees exhibited are from 50 to 125 years old, yet they are only about two feet high. They look as though they belong to the retinospora or cypress family. It is said that there have been none brought from Japan since the centennial year—1876. They have attracted a good deal of attention, proving a good drawing card, as the daily papers gave very full accounts of these artistic creations of the skillful, patient and persistent Japanese.

The cut roses as usual were much admired. They were superior in some instances to any before exhibited. This is true of Mr. John Burton's Ulrich Brunner, Baroness Rothschild, Mrs. John Laing and Mme. Gabriel Luizet. His Mme. Cusin were finer than any ever before seen here, and his Brides and Mermetts were fully equal to the best.

The Waban naturally created a good deal of interest. It was two days late in getting here, though it came through in fair condition. It is identical with Mermet—excepting in color, which is darker

than is seen in the best produced by the old variety.

There were two competitors for the dinner table decoration. Messrs. Jos. Kift & Son had a neat and prettily arranged table, mostly made up of Bride and Pinks. Pennock Bros. was a study in pink; many fine La France and pink hybrids were used in their's, as well as some good Bruners, and a vase of orchids formed the center piece.

There were some well arranged baskets, bouquets—brides and bridesmaids—which were interesting, apparently, to the young ladies.

Another of the most attractive features was a collection of rare and curious cactuses. This exhibit was made by Mr. A. Blanc, who has made the collecting of cactuses a specialty.

The number of plants exhibited was but a small portion of Mr. Blanc's extensive collection, which numbers many thousands of plants. That they are favorites with the ladies was amply shown by the crowd that gathered in this part of the hall, and the many exclamations of astonishment and delight. Some of the plants seem to give cause for merriment also, and indeed there are many curious forms among them. We noticed one marked the "Dude's Cane," and indeed it does look like the carved head of a cane, at the end of a long stick.

The most remarkable and the most valuable plant shown was a monstrosity of the common snake cactus (*Cereus flagelliformis*). This is a freak of nature which occurred on the common sort several years ago, and which by careful selection and the little skill has been propagated by Mr. Blanc, until he has the strain permanently established. The plant is composed of a mass of curiously contorted and twisted heads—nest-like in shape—from the center of which a normal branch of the plant is seen laying coiled up just like a living green snake. The plant is a most valuable and unique specimen, and Mr. B. is said to have refused \$200 for it, being a pet of his.

Perhaps the most beautiful plants shown are two specimens of *Echinocactus Grusoni*, named the "Golden Cactus." At night these plants are shown at a disadvantage, but in the day time their transparent glassy spines give them the appearance of balls of gold. This is considered the most beautiful *echinocactus* known, and was named in honor of Mr. Gruson, the celebrated manufacturer of Magdeburg, Germany, who is a most enthusiastic cactus fancier. It was discovered a few years ago by Carlos Thieme, a German botanist, growing on the side of a Mexican canyon, and in order to obtain the plants he had to be lowered by means of a rope to a depth of 200 feet. As the plant does not appear to bloom until it becomes very bulky, it has been impossible to propagate it as yet, and only one plant of blooming size has so far been obtained.

Close to these were three very curious monstrosities, one of which has assumed the form of human brains. This is called *Mammillaria nivea cristata*, and is without a duplicate.

The giant cactus of Arizona and New Mexico is represented by a bulky plant about four feet high—Mr. Blanc's larger specimens being too heavy and too large to move. This is the Pila-haya or Saguarro of the Indians, and sometimes reaches a height of 50 to 60 feet, with sometimes three or four branches at the top, looking like gigantic candle-brums. The fig-shaped edible fruit grows on the

top of the plant, and from the great height of the latter, it would be very difficult to remove them, did not this remarkable species itself afford means of reaching it. The old stems when decayed split into a number of thin poles, and by the aid of these the traveller is enabled to knock down the fruit. The Pimas at the old mission of Xavier del Bac had a large stock of Saguarro fruit, which is used for food in various ways.

A most curious monstrosity of this cactus is in the owner's collection, but as it weighs nearly a ton, it could not be removed without danger. It is in the form of a large cocombo shaped head, eight feet in circumference. This head was on a plant 40 feet high, growing at an elevation of 200 feet on the side of a mountain, and great difficulty was experienced in obtaining it. It is the only specimen known to exist and is called *Cereus giganteus cristatus*.

Next we noticed two specimens of the diameter of a flour barrel, and called Indian fish hook cactus (*Echinocactus Wislizeni*). The stems of these are recurved and exceedingly sharp, and being furrowed, the Indians readily tie a line to them and use them with good effect for fishing. When water cannot readily be obtained the Indian takes his knife, scoops out the top of the plant in bowl-like form, and this soon fills with the watery juice, affording a very palatable drink to quench the thirst.

In contrast to this huge cactus we find the little turbine wheel or *Echinocactus turbiniformis*, a great curiosity, carved as if it were a pin-wheel in motion. This little gem produces flowers in abundance at this season of the year, each of which is as large as the plant itself. Although only two inches in diameter it is valued at \$10.

The little and rare Hatchet Cactus was also well represented by a cluster of several heads. It is covered with small tubercles each of which when removed is the exact shape of a hatchet.

Many other rare cacti were shown, one particularly beautiful Brazilian sort, entirely covered with white spots. Another (*E. Cornigorus*) with hooked spines so strong that a twenty-five pound weight can be lifted with them.

The young ladies at the hall seemed to be particularly interested in several specimens of the Old Man Cactus. Three of these were nearly four feet high. This is one of the curiosities of plant life which always attracts attention, and its appearance is certainly something strange to the eye. Some surprise, as the plant is entirely covered with long white hairs. In young specimens this gives the appearance of the head of an aged person. This is a native of Mexico. It is called *Pilocereus senilis*. Many other *pilocerei* are shown, several are covered with what appears to be the finest kind of silk.

The rainbow and the candle cactus were also shown. The former bears most magnificent flowers five inches in diameter, exhibiting all the colors of the rainbow.

The plant itself is entirely studded with a regular ring of pink and red spines. The candle cactus is the one of which the Indians say, "The spines fly at you." When touched they actually burrow into the fingers, and are extremely hard to remove. They are also said to be poisonous to some people. The short branches of this plant drop off in great quantity, forming a barrier around the tree as if to warn careless approachers. Rats gather the thick and hard enclosures around their nests as a protection against snakes.

Many of the most curious looking



VARIOUS ORCHIDS.

1. *Cattleya Trianae* var. *Annae*. 2. *Cattleya Gibeziae*. 3. *Vanda Denisoniana*. 4. *Cattleya Labiata* var. *Autumnalis*.
 5. *Anguloa Ruckeri* var. *media*. 6. *Vanda Tricolor*. 7. *Anguloa Uniflora*. 8. *Vanda Suavis*.
 9. *Vanda Superba*. 10. *Vanda Suavis* var. *Lindenii*. 11. *Anguloa Uniflora Alba*.

grafted plants were shown grafted on the top of another. A beautiful one bore the name of *Echinocactus scopia candida cristata*. It is a semi-circular head of closely set whites pines.

The Living Rock (*Anhalonium fissuratum*) looks like a work of art, showing the most intricate and delicate carving. It is one of the most difficult plants to collect, its color and appearance being so

similar to the rocky formation among which it grows that it is scarcely discernible at a few feet distant. Until a few years ago this plant used to be valued at \$20 and \$25 for very small specimens.

The spineless cactuses were well represented by the Bishop's Mitre. This at a glance appears scarcely to be a living plant, so rigid and unplant-like are its forms that we might imagine that it had been carved from a piece of stone.

What seemed to be an artificial subject was an enormous specimen of Testudinaria elephantina, sometimes called Elephant's Foot or Turtle's Back. It is a large mass of what appears to be bark carved into curious angle forms, and this is the body of the plant. From the center of the upper part a number of climbing stems grow to a height of 20 to 30 feet. It is furnished with delicate smilax-like foliage, densely covered in summer with fine acacia-like flowers. The interior portion of the plant is edible and used as food by the Hottentots. This plant was imported at great expense and trouble from Africa, and it is said to be over 250 years old—weighs 150 pounds. A few plants in this collection that are five years old have trunks not larger than a walnut. It is really not a cactus, but is, when obtainable, grown with them.

The collection represented plants obtained from all parts of the world, as well as a few natives of the United States. Mexico furnishes the largest number. South America and Brazil come next. From Asia and Australia there are some few specimens, and Africa is represented by a number of euphorbias. Altogether about 250 plants were shown which does not represent more than a fourth of the varieties in Mr. Blanc's collection, and these, owing to want of space, were small specimens. An exhibit was not intended, and was not decided upon until a few hours before the opening of the show, hence, and owing to the cool weather, some of the large plants, 8, 10 and 15 feet high could not be shown. For next fall a show is promised that will eclipse any thing of the kind ever seen anywhere.

Judging from the interest taken in this show by the visitors it is easy to see why cacti have become so popular. This, however, is due greatly to the ease with which these plants are grown. They stand rough treatment with impunity, live and bloom for months without water and endure the heated atmosphere of living rooms better than plants usually employed for that purpose. Fine beds of cacti are displayed every summer in the rear of Horticultural Hall, Fairmount Park.

The Black Easter lily, or Arum Sanctum, a native of Palestine, where it is found on the Mt. of Olives, was also exhibited by Mr. A. Blanc, although it was past its prime. There was also another curious arum from Palestine shown by him, which had big black spotted flowers. It attracted a great deal of attention.

The exhibition has been extremely well patronized, the number of visitors on the last night being three times larger than last year.

The following premiums were awarded:

PLANTS IN POTS—GROWERS ONLY.

Orchids—For collection of plants in bloom, 1st C. F. Evans.

Falms—For collection of 25 varieties, in not over 10-inch pots, 1st Thomas Long, also special premium of \$10.

Azaleas—For 6 plants, 6 varieties, not over 8-inch pots, 1st W. K. Harris; 2nd H. B. Surman, gar. to E. W. Clark, Esq. Azaleas—For 2 plants, 2 varieties, 1st W. K. Harris.

For collection of 25 plants, different varieties, in bloom—1st H. Graham's Son. For Ferns—12 varieties, 1st Thomas

Long; also special premium of \$15, 2nd Robt. Wark, gardener to C. H. Clark, Esq. Ferns—For specimens, 1st Robt. Wark. Carnations—For 12 plants, 1st J. W. Colclash.

Hydrangeas—For 6 plants, 1st H. Graham's Son; 2nd W. K. Harris.

Hydrangeas—For specimens, 1st W. K. Harris; 2nd H. Graham's Son.

Spirea Japonica (Astilbe)—For 6 plants, not over 8-inch pots, 1st W. K. Harris.

Cineraria—For 12 plants, 1st Thomas Long; 2nd H. Graham's Son.

Marguerites—For 6 plants, 1st W. K. Harris.

For new or rare plant—1st Thomas Long, gardener to A. J. Drexel, Esq., for Spathiphyllum pictum.

Bedding plants in bloom—For 50 plants grown in 4-inch pots, 1st Gebhard Huster, gardener to Mrs. J. A. Heyl.

Hyacinth—For 25 plants, not more than two of a kind, in not over 6-inch pots, 1st Henry Surman; 2nd Wm. Berger.

Hyacinths—For 12 plants, not more than two of a kind, in not over 6-inch pots, 1st Henry Surman; 2nd Wm. Berger.

Tulips—For 6 varieties, 6-inch pots, 6 of a kind in each pot, 1st William Berger; 2nd Henry Surman.

Tulips—For one box of 50, 1st W. K. Harris; 2nd Henry Surman.

Tulips—For 12 varieties, 12 6-inch pots, 3 of a kind in each pot, 1st Wm. Berger.

Narcissus—For 24 single trumpet varieties, 1st Wm. Berger; 2nd Henry Surman.

Narcissus—For 24 double varieties, 1st William Berger.

Narcissus—Tazetta (Polyanthus), 30 plants, 10 sorts, 10 7-inch pots, 3 bulbs in each, 1st Henry Surman.

Spring bulbs—For general display, not less than 25 pots, in not over 6-inch pots, 1st Henry Surman.

Lilium longiflorum—For 6 plants, not over 10-inch pots, 1st W. K. Harris.

Lilium Harrisii—For 6 plants, 1st Michael Sammon, gardener to Joseph H. Shoemaker; special mention for excellence of growth; 2nd W. K. Harris.

Specimen lily, any variety—1st Michael Sammon, for Lilium Harrisii.

THE "GARDINER" PREMIUMS.

Of the special premiums for spring bulbs offered by John Gardiner & Co.—plants in pots—Henry Surman, gardener to E. W. Clark, Esq., received first for 12 named hyacinths, 12 varieties; 25 named tulips, 5 varieties; pot of narcissus, any variety; specimen lily, any variety; pot or box of lily of the valley; specimen cyclamen; pot or box of Ornithogalum Arabicum; pot or box of freesia and pot or box of polyanthus narcissus. William Berger received first for box or pot of trumpet daffodil and second for 12 named hyacinths, 12 varieties, and 25 named tulips, 5 varieties.

CUT FLOWERS.

For carnations, special mention to Edwin Lonsdale for collection of seedlings, and to John McGowan, Orange, N. J., for five vases containing seedlings and the Lizzie McGowan. H. E. Chitty, Paterson, N. J., received first premiums for collection of cut blooms not over 12 of a kind; 25 blooms, scarlet; 25 blooms, white; 25 blooms, striped on yellow ground; 25 blooms, crimson; and 25 blooms, any other color. He also took second for 25 blooms, pink. Joseph Heacock received second for collection cut blooms not over 12 of a kind; J. E. Chambers first for 25 blooms, pink.

For collection cut blooms of pansies, first to John F. Harris, second to Joseph Heacock.

In the rose classes for growers first

premiums were awarded to John Burton for Perle des Jardins, The Bride, Sunset, Mermel, La France, Mme. Cusin, Mme. G. Luizet, Mrs. Jno. Laing, Baroness Rothschild, Ulrich Brunner and Souv. de Wootton. Joseph Heacock took first for Niphetos, W. F. Bennett, Gontier, American Beauty, Mme. Hoste and any other variety (Pierre Guillot).

In the rose classes for florists only first premiums were awarded to Pennock Bros. for Perle des Jardins, W. F. Bennett, American Beauty, La France, Mme. Cusin, Mme. G. Luizet, Mrs. Jno. Laing, Baroness Rothschild, Ulrich Brunner, Magna Charta, Puritan and any other variety (Watteville). To Joseph Kift & Son for Niphetos, The Bride, Gontier, Mermel and Jacqueminot. To Heron & Nisbet for Sunset and Souv. de Wootton.

DESIGNS, ETC., OPEN TO ALL.

For basket of flowers—1st Joseph Kift & Son; 2nd H. Graham's Son; 3d La-Roche & Stahl.

For 6 corsage bouquets—1st H. Graham's Son; 2nd Joseph Kift & Son.

For plateau of flowers, 20-inch basket, oval—1st H. Graham's Son.

For bride's bouquet—1st H. Graham's Son; 2nd Pennock Bros.

For pair bridesmaid's bouquets—1st Joseph Kift & Son; 2nd Pennock Bros.; 3d H. Graham's Son.

For vase of roses—1st H. Graham's Son.

TABLE DECORATIONS, OPEN TO ALL.

For dinner table decorations, 12 by 4 feet, plants or flowers or both, 12 covers (six ladies and six gentlemen), with favors, no dishes—1st Pennock Bros.; 2nd Joseph Kift & Son.

PLANT DECORATIONS—AMATEURS ONLY.

For decoration of growing plants, not over 100 square feet—1st Robert Wark, gardener to C. H. Clark, Esq.

PLANT DECORATION—COMMERCIAL GROWERS AND FLORISTS.

For decoration of growing plants, not over 100 square feet—1st Kift & Son; 2nd A. Lutz.

FRUITS AND VEGETABLES.

For collection of vegetables, not less than 6 varieties—2nd Gebhard Huster.

SPECIAL PREMIUMS.

To A. Blanc, special mention and premium of \$50 for collection of cacti.

To John M. Hughes, gardener to Geo. W. Childs, special mention and premium, \$50, for collection of decorative plants.

To H. A. Dreer, special premium of \$25 for collection of orchids, etc.

Special mention for exhibit of Japanese dwarf evergreens, by H. A. Dreer.

Special mention to Pitcher & Mandaf for new hardy azalea "Rustica." First time on exhibition in this country.

Certificate of merit to James Dean, Bay Ridge, L. I., for new double azalea Veranena. First time shown in the United States.

Special mention to the W. H. Moon Company for evergreens in pots.

On Thursday evening the exhibits of cut roses were mostly renewed and the battles were valiantly fought over again.

In the growers' list John Burton took first for Perle, The Bride, Mermel, American Beauty, La France, Cusin, Mrs. Jno. Laing, Baroness Rothschild, Souv. de Wootton and Mme. Hoste. To Joseph Heacock for Niphetos, W. F. Bennett, Gontier, Sunset and Pierre Guillot. To Edwin Lonsdale for Mme. G. Luizet and Ulrich Brunner. A special prize was awarded to E. M. Wood & Co., of Natick, Mass., for the new rose Waban.

In the florists' list Pennock Bros. re-



VARIOUS ORCHIDS.

1. *Brassia Caudata* var. *Hieroglyphica*.
2. *Galeandra Devoniana* var. *Delphinia*.
3. *Epidendrum Atropurpureum*.
4. *Catasetum Decipiens*.
5. *Trichocentrum* var. *splendens*.
6. *Compactetia Falcata*.
7. *Phaius Humbloti*.
8. *Catasetum Fimbriatum*.
9. *Dendrobium Brymerianum*.
10. *Trichocentrum Albo-purpureum* var. *striatum*.
11. *Sophranitis Grandiflora*.
12. *Bollea Pulvinaris*.
13. *Cirrhopetalum Pulchrum*.

ceived first for Perle, W. F. Bennett, Sunset, Mrs. Jno. Laing, Magna Charta, Puritan and Souv. de Wootton. Joseph Kift & Son for Niphetos, The Bride, Gontier, Mermet, Mme. Cusin, Jacqueminot, Ulrich Brunner, Pierre Guillot and Mme. Hoste. To Heron & Nisbet for American

Beauty, La France, Mme. G. Luizet and Baroness Rothschild.

Great credit is due to John Westcott, superintendent of exhibition, David Bearn, chairman of the committee of arrangements, and his able vice-chairman John Nisbet, who had charge of the cut

flower exhibit in the foyer. Through Mr. Nisbet's system in keeping all the classes together the matter of judging was much simplified and consequently facilitated.

The advertising and the preparation of the advance notices was well taken care of by Mr. George C. Watson, of John

Gardiner & Co., and to him is due very largely the success of this spring show of 1891.

The daily papers gave good notices as the show progressed; especially was this the case with the *Public Ledger*, that is fortunate in having on its staff one who in his early years was devoted to horticulture.

It is a matter worthy of record that while the weather was on one or two days blustery and cool, it did not rain or snow during the whole of the exhibition, which is something quite unusual during our shows in this city.

A fine lot of plants from Mrs. Harry Ingersoll (Fred R. Sykes gardener) suffered so much with the cold weather during transit that they had to be returned.

EDWIN LONSDALE.



The Carnation Controversy.

There is no doubt but what the readers of the A. F. have learned a great deal about profit and loss, about numbers of flowers to the square foot, and many new solutions in arithmetical problems. But there is one thing yet remains to be done, and it will forever remain, and that is to absolutely present the *best* white, the *best* pink and the *best* scarlet, so that without doubt this selection does universally as well in one place as another. For instance, with me Hinz's White so far beats all the whites I have tried; May Queen beats Grace Wilder, and E. H. Hill beats Portia and all other scarlets, and until I can obtain a better one than any of those named I must continue to grow these. And it is this actual experience that makes the difference of opinion and not that all carnations grown have no merit. It is but a short time since I saw a crop of "Snowdon" that could not be beaten, a crop of "La Purite" equally as good; these were the best varieties for the position they are in or they would be replaced by others.

Now coming down to the best white carnation I have ever seen, as I saw Lizzie McGowan growing at Mr. McGowan's during the season of 1890, taking all the good points it possessed, it certainly was the best; but it remains to be seen whether its good properties will predominate over all other whites now that it is distributed. I have seen superb flowers of Mrs. Fisher, but Mrs. Fisher is not doing equally first rate in all places. The same remarks apply to Lamborn, to Swayne and Silver Spray. Now let us reason together over all these positive differences in opinion and experience. Given 100 plants of 10 white varieties growing side by side in the same soil, subjected to the same treatment in all particulars, the one proving the best has a right to be named the best in that competition. In ten competitions at 10 different places it is safe to say there would be a widely different result.

In my opinion and from my experience it is the soil that has a great deal to do with the perfect elaboration of all plants, and this is a very ambiguous statement I will admit.

We talk about light sandy loam, good bodied loam, strong loam and clayey loam. The component parts of all soils

differ according to the number and quantities of material in their composition, and there are as many varieties of soils as there are acres on the continent when it comes to differences. Chemistry will yet help us to solve some of the problems we are now blindly battling with, but it is slow work.

JOHN THORPE.

Lamborn Carnation.

ED. AM. FLORIST:—I was somewhat surprised to read in the last (March 5) issue of the *FLORIST* that Mr. Nicholson, issue of Framingham, Mass., not only doubted but actually disputed the correctness of my figures as given in my statement printed in the *FLORIST* of February 19. For Mr. Nicholson's information I will simply state that all necessary deductions are made before being carried to the net column, and that that column represents only actual results, and I have every reason to believe is absolutely correct in every particular item.

Mr. Nicholson suggests that by some peculiar process of refiguring I could greatly reduce the value of the majestic column of figures set up by me, and that the total should be not \$3,237.50 but \$1,099.50. Permit me to call his attention to just one small item which alone will cause him to change his views on the subject and I think convince him of the weakness of his defenses and the utter untenableness of his position.

It will be observed in my statement of February 19 that I allow and deduct 50 per cent as cost of production in every case, which in the case of rooted cuttings of Lamborn carnations which are sold at \$15 per 1000, would be \$7.50 on each 1000 sold, but in the case of Lizzie McGowans which are sold at \$100 per 1000 I also deduct 50 per cent as cost of production, which will amount to \$50 on every 1000 sold; now as a matter of fact which must be patent to every reader of the *FLORIST*, the McGowans cost me no more to produce than the Lamborns, and as Mr. Nicholson charges me with the sale of 30,000 Lizzie McGowans the difference on that item alone would be \$1,200 in favor of my sales and the magnificent column of figures which I have reared.

And again in Mr. Nicholson's sale price of his carnations which was, I believe, settled at 2½ cents, 50 per cent was deducted as cost of production, which in his case would be 1¼ cents per flower, but in my case I believe I clearly demonstrated that the sale price of my white carnations was 10 cents, a 50 per cent deduction from which would be five cents or almost four times more than the value of the deduction made from Mr. Nicholson's. Now, if Mr. Nicholson has the time he can figure the matter out, and I am satisfied he will find he has considerable to add to instead of deducting from my majestic column of figures, which I can assure him is none too large or too majestic when the necessary attendant expenses are taken into account. I do not think that Mr. N. will find himself prepared to say that it costs me four times as much to grow carnations as it does himself.

I have not the time to go over and dissect Mr. Nicholson's last letter, in fact I think as far as a demonstration of the subject is concerned there is no need of it; neither have I the disposition or desire to take advantage of his exposed position; if he will make a careful survey of his last letter and compare it with a former one he will I think thank me for this hint.

And although he has been sharp in his criticisms I still have nothing for him but the most kindly expressions of good will, and as a new beginner I congratulate him upon the satisfactory results of his enterprise, and if it is ever my good fortune to meet him face to face I shall greet him cordially.

H. E. CHITTY.

Paterson, N. J., March 14, 1891.

The Carnation Controversy.

The editorial remarks on page 540, issue of *FLORIST* March 12, I fully agree with. I believe when a matter of that kind is reduced to a mere exchange of sarcastic and acrimonious innuendoes the sooner it is stopped, the better; I also believe however, that the editor of the *FLORIST*, and its readers generally, will agree with me that whenever I have taken the trouble, and spent the time to write anything for its pages, it has always been with the hope and expectation that it would be for somebody's good and for the purpose of assisting in the elucidation of some question at issue; my letter of January 12, was no exception, and why so many attacks should have been made upon me in behalf of that letter I have never yet been able to comprehend. But I must confess that I am only too thankful for the occurrence, for it has advertised me, and increased my business beyond anything that I could have reasonably hoped for. Being the assaulted party I have the right of firing a parting shot, but for the sake of harmony and good will, I will waive even that right.

To Mr. DeWitt I will simply state that we are all liable to make mistakes, especially when writing in a hurry, and I own up to making one of \$12.50 on my 2½ per cent. annual tax, which he was not slow to notice, and in his hurry to note it down he made a still greater mistake about the same instant.

H. E. CHITTY.

P. S.—I will state here, if I have never done so before, that my soil is quite light, and I find that where it was packed down solid while setting out the plants, there they do the best.

The Carnation Contest.

ED. AM. FLORIST:—I write now to state that I accept Mr. Lombard's terms as specified on page 532 March 12 issue of the *FLORIST*, and that I pledge myself if alive and well to comply with all the conditions he names, provided, however, that Mr. Falconer is willing to accept the task. I have not enjoyed the pleasure of a personal acquaintance with that gentleman any more than has Mr. Lombard, but am perfectly willing to entrust him with my end of the contract. There will be time for Mr. Falconer to notify us in the interval whether or not he is willing to assume this position.

H. E. CHITTY.

Paterson, N. J., March 18.

Cannot Consent to Act.

ED. AM. FLORIST:—While I sincerely appreciate the kind compliment paid to me by Mr. Lombard in the carnation matter, I cannot consent to act as the referee.

Should Mr. Chitty agree to refer the matter to me, as suggested by Mr. Lombard, kindly put my disinclination to serve in as pretty a way as you can. Sincerely,

WM. FALCONER.

[We could think of no better way than printing the letter as received.—ED.]

Notes From Bay Ridge, N. Y.

BY WM. FALCONER.

Bay Ridge is on the south shore of Long Island and adjoins Brooklyn. Taking the Hamilton St. Ferry (at South Ferry) New York, and the Hamilton St. horse cars and a transfer to the steam motor carsin Brooklyn, to the city limits I found myself the other day at the door of my warm and happy friend Mr. James Dean; far from New York to Bay Ridge seven cents, time about half an hour.

Mr. Dean is a quiet but exceedingly genial middle-aged gentleman, thoroughly practical in his calling and successful in business, and one of the largest growers of Easter plants in the country. He is also a member of the executive committee of the S. A. F.

He has a large greenhouse establishment. Most of the houses are span-roofed, 175 feet long by 22 feet wide, and there are also lesser houses of equal length and a long lean-to pit. All are heated by hot water. Genistas, azaleas, trumpet lilies and hydrangeas are grown in immense quantities for the Easter trade, and there are houses filled with palms, ferns, Dutch bulbs and some other plants.

About genistas: Technically I should say *Cytisus canariensis* and *C. c. var. racemosus*, but I might as well try to get the people to call a lemon verbena an *aloesia*, or a scarlet geranium a *pelargonium* as to get them to call a *cytistus* by any other name than *genista*. By common usage we have made *genista* a common name in the same way as we have made *verbena*, *dahlia*, *fuchsia* and *azalea* common names, and as it is easy to speak, easy to remember, apt and beautiful, why shouldn't we stick to it?

Mr. Dean grows thousands of *genistas* from two to seven or eight feet high and aims to have them in full bloom at Easter, which is easy to accomplish as they bloom naturally at this time of the year. For large specimens he prefers the typical *canariensis* because of its freer habit and the more open, arching and graceful arrangement of its gilded branches. The lesser plants are about equally divided between *canariensis* and its variety *racemosus*. Of recent years, however, he has devoted much painstaking to raising new varieties from seed, endeavoring by selection and breeding to get rid of the stiffness of form of the typical *genistas* and secure something of an open drooping habit, for fashion is objecting to stiff forms among all decorative plants. And he has certainly succeeded in breaking up the race, indeed so much that the exact identity of the typical species and its variety is lost, and a progeny of forms intermediate between the two is now being leant to more to the one than the other, and not a few differing materially in foliage and habit from both parents. From among the multitude he has picked out one plant over which he is exultant, and he declares that he will not sell it for a penny less than \$1,000! It is of the *racemosus* type and bushy, but of an open, graceful, almost drooping nature, and its golden racemes are more inclined to droop than stand erect as in the ordinary form, in fact some of them actually hang down like those of a laburnum. "Sell it for less than a thousand dollars!" exclaimed Mr. Dean, "indeed, I won't." "Why, from this one plant alone I can get up a thousand plants by this time next year."

The *genistas* are grown in pots in summer as well as winter because if planted out in summer they don't live well in fall. They are plunged outside in summer,

though. Once or twice in summer and again in early fall the smallish plants are cut in a little to keep them compact and shapely, but the large plants are allowed their natural freedom.

Hydrangeas. I never before saw so many of these grown together. The varieties are Thomas Hogg, Otakasa and "rosea." But this "rosea" is more a form of *Japanica* than the *rosea* which was introduced from Japan a few years ago as a new species; it is a very beautiful variety, however. The hydrangeas are mostly two or three year old plants and according to size are in six, eight or ten inch pots. Their stout, short-jointed wood, fine thick foliage, and massive heads of blossoms speak eloquently for the mastery style in which they are handled. They are raised from cuttings in spring,



BASKET OF SPRING FLOWERS.

planted out in summer and mulched and watered if necessary, and lifted and potted in fall, then kept in a cold frame till New Year's, when they are started on their way for Easter. At lifting time, in order to get them into moderately small pots the earth is pretty well shaken away from the roots; frost is never allowed to reach the plants in the cold frame lest it should injure the blossom buds; the plants are never dried off and no attempt is made to get them to shed their summer leaves, indeed, they don't do it.

Lilies. Just imagine a spacious greenhouse 175 feet long by 22 feet wide soundly filled from end to end and side to side with *Lilium Harrisii* in full bloom and graded on the slope and as evenly as if they had been set to a straight edge, and looking over their heads you could not see one green leaf for snowy blossoms, and you will have a picture of the interior of one of James Dean's greenhouses. Ten thousand bulbs of *L. Harrisii* he grows, and one bulb in a 5-inch pot to several in an 8 or 9-inch pot, and the plants run from about 2½ feet to 5½ or 6 feet high. I did not see any longiflorum or candidum lilies.

The bulbs are received in July or August and at once potted, set close together in a frame out of doors, watered and then mulched over with hay or straw and left there till November, when they are brought into the greenhouse. A night temperature of 40° to 45° is maintained till about New Year's when it is increased to 60° or 65° or a little more in dull weather. He gets them well rooted to begin with, then starts them early enough so as not to have to rush them, and in

order to have stout, stocky stems and good foliage and the flower buds well developed six weeks before Easter. Then by a moderate temperature and increased ventilation he is able to produce just as firm, substantial and lasting blossoms as those of any longiflorum. The first thing done every morning when the lilies begin to open is to go over them and pick out the anthers, so that the snowy trumpets shall not become stained, or the duration of the blossoms shortened by fertilization.

Do you save any of your old bulbs for another year? I asked Mr. Dean. "Never," he replied, "it wouldn't pay. As soon as we are done with them we dump the bulbs into the rot pile and start afresh."

Azaleas are grown in immense quantity and distributed in several greenhouses. One large house was a sight to behold! Along the center of the middle bench was a thin row of tall, flowing *genistas*, and then the whole bench as well as both side benches was one solid mass of medium sized flat headed azaleas, an unbroken sea of bloom. Then there were large specimen plants of various dimensions, and one of Dr. Moore in full bloom, as well flowered a plant as I ever saw.

Something strange about the cultivation of azaleas is the fact that Mr. Dean finds it cheaper to buy his plants in Ghent than raise his own stock. Nice young stock can be bought over there at a reasonable figure, but the prices asked for large plants are prohibitory; indeed, the stock of large plants in Belgium is very limited. And too, he tells me that while common varieties among small stock are low priced enough, the finer varieties are quite expensive; at the same time he insists the finer varieties are the ones that command the readiest sales and biggest prices here, hence are the most profitable to handle, even if they cost a little more to begin with.

Among his prettiest azaleas in bloom were Bernhard Andreas, deep rose, double; Cocarde Orange, bright, deep red; Comte de Chambord, bluish, white edge, upper segments spotted with crimson; Dr. Moore, deep rose, semi-double; Empress of India, white, rose and carmine, double; Herman Seidel, bright purplish rose, double; Le Flambeau, dark claret; Madame Camille van Langenhoven, white striped with crimson; Madame van der Cruysen, rose, deep spot on upper segments; Roi d'Hollande, bright crimson; Sigmund Rucker, rose bordered with white; Souvenir de Prince Albert alba, a splendid white, Madame Bernard Andreas, a remarkably fine double white, and Herman Seidel, a very distinct double camellia-like white. And there were many others, but, sub rosa, I couldn't pronounce their names let alone spell or remember them. But Mr. Dean is to be equal to this emergency, he has set aside a collection of fifty distinct varieties, all properly and distinctly named, and is going to exhibit them at the forthcoming flower show in New York.

The greatest of all his azaleas, however, is *Verveaneana*. This is a new variety with very large semi-double variegated flowers of fine form and substance. The segments are white with a broad central blotch of pink, and pink markings on the central area. Not only has he secured a large stock—many hundreds—of this fine azalea, but he also has got old Mr. Verveane's son to come over here from Ghent to grow them for him.

In the summer months he turns his azaleas out of doors and plunges them in open frames in which he had grown pansies in winter and spring, and in full sunshine.

His palms were of usable decorative size and included *Cocos Weddelliana*, *kentias*, *arcas* and *livistonas*. And his ferns, mostly *adiantum*s, *pterises* and the like, were from seedling state to 6-inch pot plants; just anything needed for mantel banks, border trimmings, filling boxes or baskets, or if need be furnishing cut fronds. A large number of *adiantum*s are used by the retail florists as pretty plants for store or room decoration and to cut the fronds from as they are wanted. A large pit which is used for forcing lily of the valley in winter is used in summer for growing seedling ferns.

Basket of Spring Flowers.

The basket shown in the illustration was arranged by Florist Wm. Burns, New York. In shape the basket is like a wide-open satchel. The handle is thin and made of rush. The basket is filled with yellow pansies, violets and lily of the valley in one side, and Roman hyacinths, mignonette and forget-me-nots on the other, with a cluster of *Mermet* roses.

Our Orchid Illustrations.

We failed to get the complete set of orchid illustrations into last week's issue so we present some more in this number, making practically a continuation of the series of orchid plates. We shall have more to present in later issues.

New York.

Business continues to be extremely dull, the inclement weather adding (if possible) to its dullness.

All the stores are being stocked with Easter novelties in every imaginable shape and design, and the windows are filled with blooming plants. Elaborate preparations are being made for the Easter trade and every store will have an exhibition of flowers and plants.

Easter coming so early this year it was feared the supply of flowering plants would be short, but later reports from all sides assure us that there will be an abundance of everything and the variety and quality has never been equaled.

Many novelties in Dutch bulbous flowers are here for the first time and the new *genistas* and *azaleas* are very beautiful. *Manda's* double *azalea* is a beauty and valuable on account of its fine color and lasting qualities.

Dean has some things under cover that will surprise visitors to the coming show.

Cut flowers are and will be plentiful; plenty of hybrids and little demand.

There was nothing to note in decorations during the week with the exception of the one executed by Alex. McConnell for the dinner given to Gen. Fitzgerald and staff by W. L. Flanagan, 53 West 39th street. The house was handsomely decorated with palms and orchids, the table being adorned with military devices, the center piece being a large field gun made of violets and *Jacqs*.

Never before has there been such interest taken in and good will shown towards any undertaking as the coming exhibition. It is the one absorbing topic among all, and everyone is working with great determination for its success. Every grower and retailer of note has entered in some of the classes, and it is expected that many from a distance will be present. The best reputed judges of the country have been appointed for the different classes of plants and a committee of lead-

ing society ladies will see to the designs and decorations. Canada and the majority of the states will be represented. Don't be left out if you have anything that will add a lustre to your name; send it on. Society in general has taken the matter up and committees within committees are being formed to ensure its financial success; it will be the grand fete of the season. JOHN YOUNG.

Cincinnati.

At the 28th monthly meeting of the Cincinnati Florist Society February 14, the attendance was the largest that they have had for some time.

The special order of business for the evening was to discuss plans for the building of a flower market which were presented by special committee appointed at last meeting, and drawn by a prominent local architect. This building when completed will be the finest and I believe the only one in the United States that is used exclusively by the florists and seedsmen as a place to display and sell the products of their labor. The building will be constructed of glass and iron principally and will cost when completed \$15,000, to be erected under the bequest of Mrs. Holroyd.

One of our growers surprised the society by producing a *Niphetos* rose that measured 6½ inches across. This bloom was supported by a stiff stem, something that is very seldom seen with this rose.

Mr. E. E. Hill, of Richmond, being present favored the society with quite a little talk on the carnation, which at present is taking a leading part in florists' circles. Mr. R. Witterstaeter had on exhibition several very fine specimens of carnations, and to this gentleman is due the honor of growing the finest carnations brought to the Cincinnati market. A paper on the carnation was read by Mr. R. Witterstaeter which I send you for publication. He was tendered a vote of thanks by the society.

Mr. E. G. Hill ventured the opinion that an extra large bloom of the carnation could not be grown without bursting the calyx. Mr. Hill also stated that he thought carnations should be grown from seed and that the stocks should be changed and that carnations should only have a limited amount of water, and especially overhead. E. G. GILLETT.

Sec'y Cincinnati Florist's Society.

Philadelphia.

The collection of cut roses at the spring show of the Pennsylvania Horticultural Society was very fine. John Burton put his best foot forward and out of 13 entries received 12 first prizes. Taken altogether the show was very good and financially much better than last season.

The outlook for Easter is good. There seems to be plenty of stuff about, and at this time, March 21, wholesale men say that their stock is nearly all engaged.

There promises to be lively times in the retail trade. H. Graham's Son has rented the store at 1516 Chestnut street, next door to Pennock Bros., for Easter week, and there are rumors of several other unoccupied stores being taken by ambitious florists. There are also a few of the growers who have arranged for a city store at Easter time. Jacob Becker and Robert Craig have rented stores on Market street, in the center of the city.

Palms are moving very well for this season. Mr. C. D. Ball says he was never before so busy at this time of the year.

New York Floral Notes.

The exhibition by Messrs. Siebrecht and Wadley at the Madison Square Garden, March 4 to 12, was spoken of as an orchid show, but while these were decidedly the main feature, all kinds of flowers were shown.

On the Madison Avenue side of the garden was laid out the Dutch garden, after a plan taken from the period of 1500. This old Dutch garden was enclosed with cedar frames about 10 feet high. The beds of box wood on the inside were finely laid out in the centre with tulips of red, yellow and the Cottage Maid; around the side beds of the Dutch garden were hyacinths, crocuses, and lily of the valley; the double pink hyacinth was there, with Dutch hyacinths of a light purplish color; these contrasted beautifully with the *Rosamundi* tulip, and with the *Leonides*, a salmon colored one. The weeping spruces, the blooming bay trees, and the fine hedge of this Dutch garden were quite a novelty in these parts, and something long to be remembered.

From the Dutch garden we go into the English garden, where the orchid display was made. The collection of orchids from Rose Hill Nurseries occupied three banks and one bank was where the show of Mr. Kimball, of Rochester, New York, took place, and here his gardener, Mr. Savage, was during the whole week of the exhibition. In Mr. Kimball's exhibit were 52 cypripediums of great beauty, and of much value. There were *odontoglossums*, *caeloglossa* and *denudatum* with a new and then a *zygopetalum* or an *oncidium*. This orchid bank and the others of Messrs. Siebrecht and Wadley were surmounted by a fine palm of *Seaforthia Elegans*; in all of these banks the cattleyas were the most numerous orchids exhibited, some of these were very rare, and all of them were exceedingly beautiful.

Outside of the four orchid banks were beds of *azaleas* with *rhododendrons* in the centre; then there were beds of *cinerarias* with *genistas* in the centre, and *primroses* around the edge. These beds the first day they were shown were lovely indeed. On the sides of the English garden were beds of *Marguerites* and *pandanus* and young palms, with here and there a fine lily.

There were also on the sides of the garden six cocoanut palms from Trinidad, and ten cabbage palms from Florida; these palms were decorated with Florida moss, and some were hung with *penepithes*. In the Spanish garden were three trees of *Dicksonia antarctica*, which were especially beautiful. A bird's nest fern in this Spanish garden was also admirable.

Opening from the grand collection of orchids was a scene of the Ponce de Leon Hotel Garden at St. Augustine, which was very beautifully arranged. From this there was a passage up a flight of stairs to the entrance to the Italian garden, where were placed a pair of palms of the rare *Pritchardia Grandis*; these valuable palms were well worth a trip to see, and they were examined by a great many who could appreciate them. In this Italian garden was a bower of greens, which was surmounted by a large stag's head fern; there was water trickling down from one side of the bower which fell into a large vase beneath. The image of Mercury placed conveniently at one side of this Italian garden, was so arranged that it could be seen and studied from the Dutch garden, at the end of the hall. On the rise of the Italian garden, at both sides of the stairway, were groups

of orchids, in which there were many handsome ones placed. A plant of *Phalenopsis amabilis* *Sanderiana* attracted much attention.

There was a fine display of orchids in the Italian garden, which were sent here by Mr. Arnold; these were placed on one of the palms. A *Cattleya Trianae* alba was placed among these, and this attracted much attention, as it was said to be the rarest flower in the garden; it was perfectly white, with only a spot of lemon color on the lip.

The decorations for the Langdon-Carroll wedding March 3, were arranged by Hanft Bros. The hallway of the house was festooned with asparagus and tulips around the woodwork, which were put on the walls very handsomely to where they opened into the library. The wedding pair received their guests in this library, before a handsome group of plants in pots, among which were genistas, azaleas and rhododendrons. On the mantel pieces were American Beauties, lily of the valley, and pots of acacias. The parlors and dining room were only trimmed with flowers on the mantel pieces but here were many fine orchids.

Klunder made a very handsome piece of orchids which was six feet in length for Sloan's dinner; this was a round basket running six feet both ways and was filled with a variety of cattleyas and dendrobiums; there were on the table four gold vases filled also with orchids. F. A. BENSON.

Basket.

The illustration shows a basket arranged by Florist McConnell, New York. The form is spoken of as spade shaped. The large roses are American Beauties and the smaller ones Mme Hoste. Lily of the valley is used in front and on the handle, the latter being tied with a ribbon.

Baltimore.

The annual election of the Florist Club resulted in the following officers for the ensuing year: President, Wm. Fraser; vice-president, E. A. Seidewitz; treasurer, Wm. B. Sands; secretary, Henry Bauer; financial secretary, Jno. Wiedey; librarian, Chas. M. Wagner.

The reports of the treasurer and financial secretary for the past year showed a most encouraging state of things, and taken together with the very popular gentlemen elected at the meeting produced a general jubilation, which was heightened by the remarks of Mr. Stewart secretary of the S. A. F., who at the request of the retiring president favored the club with a very complimentary speech and expressed a wish that the desire to have the S. A. F. meet in Baltimore in 1892 might be gratified.

Owing to the election several important papers and discussions were postponed of which something will be heard in the future.

Business has settled down to something like a Lent dullness, varied by an occasional ripple in the way of a reception, all minds being intent on the usual pre-Easter calculations; "Will my — be in in time?" Fill the blank with what you will. MACK.

Cincinnati.

The 29th monthly meeting of the Cincinnati Florists' Society was held at the Metropolitan Hotel. The attendance was fair. General order of business, the

discussion relative to holding a chrysanthemum show the coming fall, which was finally carried unanimously.

Mr. B. P. Critchell favored the society with a paper entitled "25 years' experience as a florist in Cincinnati." This was very interesting and was listened to with a great deal of pleasure.

Business for the last few weeks has been rather quiet. Still our different florists have all had something to do and have turned out some very handsome and artistic floral work.

The Easter trade promises to be very good, both for the wholesale and retail dealers. E. G. GILLET, Secretary.

March 14.

Older Fuchsias.

With most plants the trouble is over after wintering them, but with fuchsias it is then the trouble begins. They love a temperate and humid atmosphere, but



BASKET

the thing they love is ordinarily missing in this country, and has been very noticeably so during the past few summers. During the spring what beauties we see: tassel-hung and perfect specimens of symmetry and luxuriance. But alas, at the first bright smile of old King Sol their beauty has "faded and gone," and our once flowers, and leafy fairy-tree is transformed into a naked skeleton. Imaginative people may derive some satisfaction from these leafless stems by shutting their eyes and feasting memory on the beauties that once clothed them, but for prosy people there is little pleasure in them.

From what I have seen and heard the purchasers of fuchsias are largely of the latter class. Have you not had your customers look at your fine spring fuchsias, express their admiration and then say: "No, I don't want them; they are beautiful here, but they never grow for me." Yes, you hear it often, and know that it is only too true.

The fuchsia is universally admired, but its popularity and sale, for this reason, is annually declining. Of course there is a large business done in them still as early window plants, but the numbers of those who buy them later on, or to plant in their yards, is yearly growing less.

As beautiful a flower as is the fuchsia, and so much admired by all, it ought if

possible be saved from complete relegation to that class of flowers that only "bloom in the spring," and I think it can be.

The remedy that occurs to me, is to save our luxuriant "yearling" spring plants, so green and beautiful, wholly for early spring or window plants, and under no circumstance recommend them for any other purpose. And recommend for planting out, only plants two years and more old, since my experience is that under the treatment given the young and tender plants these older ones will grow and bloom in the handsomest kind of style.

Last year on the green before one of the stateroom mansions of our town we saw in a tub a fuchsia six feet high, leafy, and a perfect shower of bloom; and that in the midst of the warmest weather. The variety was Black Prince, and for satisfaction the gentleman hadn't a plant he prized more highly. "As easily wintered as a potato," said he. "In the winter I have it in the cellar, and keep it dry; that's all."

This is a matter should be, and in it there is a good suggestion. What think you? ERNEST WALKER.

Louisville, Ky.

New Roses.

Three of the new roses of 1890 have bloomed with us at Western Springs:

Triumph de Pernet, brilliant red, with good habit and fine form, and if it should prove free blooming it is likely to be a very desirable rose for forcing.

Madame Elise Lambert, white, double, with a beautiful rose tint in the center, marked as C. Souperet is occasionally. The flower is of good size and is sure to prove a desirable variety for bedding, though rather too short a bud for a florist's rose.

Eliza Fugie, the bud in shape is like Niphetos and its external appearance almost pure white, but looking into the rose it shows a yellowish tint of the same shade as Madame Hoste and is hardly likely to excel that variety. J. C. V.

Hotbeds.

The following notes on the preparation and use of hotbeds as practiced by head-gardener Stromback, at Lincoln Park, Chicago, may be useful to some at this season.

Horse manure and straw is the favorite material. It is sometimes mixed with tree bark or leaves from soft wooded trees, and not infrequently with both.

For a frame to be started in February or March the manure is laid in a cone shaped pile from six to ten feet high. When starting the pile care is taken to place in the center manure that has not been frozen, and on this is poured from one-half barrel to a full barrel of boiling hot water. It is then covered with the other manure and built up in a cone shaped pile as before mentioned. The object of the hot water is to insure the heating or fermentation of the manure in cold weather, for unless the manure is quite fresh and none of it frozen fermentation might not otherwise take place.

In about six or seven days the pile begins to heat and it is then turned thoroughly from top to bottom, mixing the heated with the unheated parts. It is considered very important that this operation be done carefully and thoroughly. The pile is then again built up into cone shape. In another five or six days the manure is ready for the frames and is of a dark brown color.

For this latitude it is found that for a frame made up in early March and for such plants as alternantheras etc., that require from 70° to 75° bottom heat, a layer of manure about two feet thick is necessary. It is laid in the frame evenly, care being taken to mix the hot and the cold manure together and then packed down hard. If a cooler temperature than that noted is wanted the manure is packed down very hard; the harder it is packed the less heat will come to the surface.

For alternantheras three inches of rotten tanbark or mixed rotten manure and soil is laid on the surface and on this the plants are placed. Other materials are sometimes used for laying on the surface, all that is necessary is that it is something that the heat may readily work up through. Sand is never used for this purpose as it packs too tight.

For cooler frames, for geraniums etc., in March and early April a one foot layer of the heating material is found to be sufficient. It is packed and covered in the way before described.

The frames have caps or shutters, which are placed on the beds every night until danger of sharp frost is past. And as a matter of course ventilation is religiously attended to. In late spring, on fine days, the sash are entirely removed during the greater part of the day.

The Color Chart.

I have been very much interested by the recent articles on color, but confess to a feeling of disappointment. There is a difficulty at the root of the matter, which is probably not appreciated by those who have always associated with those who understand the correct signification of such terms as magenta, solferina, maroon etc., but to those who like myself get these terms from their application by the general public the use is nothing definite about them. Such terms as red, yellow, pink etc., are more definite, yet I find flowers which to me convey the impression of pink are often called "rose" or "light rose." I have tried consulting the dictionary and I find that maroon comes from maroon a chestnut, yet most of the flowers which I find described as maroon are far brighter than any chestnut and to my eye come much nearer to purple or crimson or a mixture of both. I can see no way out of the difficulty short of a set of colors in enamel, as suggested, all properly labeled and in some form convenient for distribution and reference and I for one, hope the "International Color Conference" will "materialize" at an early day.

Wm. F. BASSETT.

Hammonton, N. J.

SAN FRANCISCO.—At a meeting of florists, nurserymen and seedsmen held March 2d, it was decided that the formation of a club would be of great benefit. Eleven new names were added to the roll of intending members of the club and a committee was appointed to call another meeting two weeks later for the purpose of perfecting the organization by the election of officers.

BUFFALO.—W. J. Palmer & Son, successors to W. J. Palmer, have moved into a new store at 304 Main street. The store runs through to Erie street giving two window spaces at each entrance. The new store is furnished with all the latest improvements, including two large and one oak ice boxes and 25 feet of show cases.

WASHINGTON, D. C.—John H. Ley is about to commence business here and will buy land and erect about 10,000 feet of glass, chiefly for ornamental plants and orchids. Mr. Ley was for eighteen years in business at Croydon, near London, England.

SITUATIONS, WANTS, FOR SALE

Advertisements under this head will be inserted at the rate of 10 cents a line (exclusive of each insertion). Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED.—By a practical florist—private or commercial, long experience. Address B. C. 25 South 4th street, Harrisburg, Pa.

SITUATION WANTED.—By a practical gardener and florist, 20, single; in private or commercial place near Chicago. Address: FLORENCE, G. S., care American Florist.

SITUATION WANTED.—By a first class florist and gardener; married; best of references—private place preferred. Address: FLORENCE, care American Florist, Chicago.

SITUATION WANTED.—As gardener or florist by young man with 5 years' experience and best of references. Address, stating salary to go to man, H. O., care American Florist, Chicago.

SITUATION WANTED.—As florist, gardener and propagator; 15 yrs. experience in growing roses, carnations, violets and fancy bedding plants. (Woman; single; 30 years of age; strictly sober; very industrious and honest. Good wages expected. Address: GRACE, care J. J. Deussen, National Home, Milwaukee, Wis.

SITUATION WANTED.—By gardener of executive S. ability, thorough plantsman and florist, successful in growing general propagator of all horticultural matter connected with the trade, or accessory to the nurseries, hard or soft wood, hardy herbaceous, conifers, etc. Address: RELIABLE, care American Florist, Chicago.

WANTED.—Single man for greenhouse, vegetables and general work on private place; sober with good references. H. W. FOSTER, Pontiac, Conn.

WANTED.—An active young man with thorough knowledge of general greenhouse work and bedding out. Apply please. M. DUMMETT, Mt. Vernon, N. Y.

WANTED.—Competent florist and vegetable grower; sober, with good references—youth and single man preferred. Address: BRADY 20, Canandaigua, N. Y.

WANTED.—Industrious young florist, competent to grow roses and general stock for commercial place. Address, with terms and references: J. E. JACKSON, Galveston, Texas.

WANTED.—A young man, unmarried, thoroughly acquainted with rose and mushroom culture, private and commercial greenhouse. Address: THOMAS KAYE, Waukegan, Ill., Chicago.

WANTED.—Immediately, partner or journeyman man who will take the product of 10,000 feet of glass, and want partner with capital to put up such a plant. It is immaterial whether he understands the business or not. Address or write: W. C. care American Florist, Chicago.

WANTED.—An assistant in a small commercial place, single preferred; he must be a practical florist, sober, industrious and honest. Good decorator and maker up. Permanent place. Address with terms and references: W. B. WOODRUFF, Macon, Ga.

WANTED.—I have a store and an established business will take the product of 10,000 feet of glass, and want partner with capital to put up such a plant. It is immaterial whether he understands the business or not. Address or write: W. C. care American Florist, Chicago.

WANTED.—A first class rose grower, one that is well up in the florist business, to take charge of 1500 feet of glass where cut flowers are grown. Must be sober and industrious. Send wages experience and references. Wanted at once. Address: KENNING FLORIST CO., Oskaloosa, Iowa.

WANTED.—A strictly first class man as a foreman, must have had a large experience and be able to give the best of references; am willing to pay good wages; the right man; the business is almost entirely rose growing; state wages wanted and if married. Address: F. N. Y., care Am. Florist.

WANTED.—A reliable man with good references to take charge of a small farm at Bristol, R. I. Cottage, greenhouses, grapes attached to keep in good order and run at his own expense. Rent free. For full particulars apply by letter to: ROBERT JOHNSTON, Swan Point Road, Providence, R. I.

WANTED.—Capable man with business qualifications; good worker to take a business man's country place in suburbs of New York City or shares, 70 acres the soil under plow; greenhouse about 100 feet of glass, heated by natural gas. All necessary outfit furnished. Address: C. F. K., care American Florist, Chicago.

FOR SALE.—Florist's store in a large city established twenty years in good location and good business, reasons for selling explained on application. Address: M. G. R., American Florist.

FOR SALE.—A good chance, florist and seed store with 400 feet of glass, heated with hot water; a complete stock of plants for spring, prominently located in the center of the city with 4100 inhabitants, and everything sold over the counter, will sell reasonable and on easy terms; reason for selling want to go west in some other business. For particulars address: 35 and 40 West Scott Place, Elizabeth, N. J.

FOR SALE.—A well established florist and gardening business of 12 years successful standing; good retail and wholesale trade in general run; four good houses and lot of wash, full of stuff for early spring sales; one or more horses and wagons, four acres of land inside the corporation city water works all over the ground; best for celery growing; also lease of 6 acres of good land is mile of railroad station; price \$4,000. Address: G. N., care American Florist.



DAISY SNOWFLAKE

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EASTER LILIES.

Electro of this Cut (No. 3434, S.).
A. BLANC, PHILADELPHIA, Pa.
Largest stock of Florists' Cuts in the world. Catalogue of 4,000 cuts 35 cents.

DAISY SNOWFLAKE

Daisy Snowflake.—This Daisy, if treated like Violets, will give splendid returns for all labor bestowed upon it. I grow it by the thousands and cannot supply the demand for cut flowers, as it keeps fresh from 3 to 4 weeks after being cut, and then looks as fresh as other white flowers just cut. It grows from a stem on strong long stems, fine white and beautifully quilted, and averages as large as a decent piece; a great acquisition to florists.

Price, \$1 per dozen, free by mail; \$5 per 100 by express.

SEE WHAT F. J. KELLER SAYS ABOUT THIS DAISY:

ROCHESTER, Jan. 28th.
Daisy Snowflake is quite a useful flower both for floral designs and put in with cut flowers, and when tied up in small bunches they sell very rapidly with us for funeral designs. It is cheaper and covers almost the same space, and keeps fresh considerably longer. Be sure and send me every 1 Daisy you can, as I cannot get them fast enough for my customers. They say it is the best cut flower I buy because it keeps fresh for so long. I have not had to say too much in favor of this useful flower.

Yours very truly, F. J. KELLER.

MISSION RIDGE GREENHOUSES.

CHATTANOOGA, TENN., March 1st, '91.
FRED. SOHN, ZENOS, ILL. We received our Daisies yesterday, and Daisies they are! Enclosed please find our check for \$5.00 for 100 plants. Please send them as soon as you can, as we want to get them to blooming well before Easter. Can you supply the cut blooms and at what price? They ship so excellently that we would like to get some for immediate use.

Very resp't. **MAC GOWAN & COOK.**

P. S.—We add our remittance; please send its value in Cut Flowers if the Daisies with shipment.

FRED SCHNEIDER, Wholesale Florist

Wyoming Co., ATTICA, NEW YORK.

JOHN WHITE, FLORIST.

Waverly Place, ELIZABETH, N. J.

Now off this New and Beautiful set of 13 seedling **CHRYSANTHEMUMS** of 1891,

each distinct and extra fine;

Mrs. Frank Spencer, Jean Blanc.

Mrs. G. W. Harrison, End.

James S. Green, Mrs. Magee,

Mrs. J. White, Mon And Hughes,

Frank Hart, New York,

Ben Green, Conch and Chinz.

Delivered April 1st, at \$1.00 each; per Set of 13 for \$9.00.

PALMS.

We have a splendid stock of Kentias in 2½, 3 and 4 inch pots, which we offer at exceptionally low prices. Plants are of our own growing and are strong and stocky. 25 plants sold at 100 rates.

	In. pot	high	Per 100
KentiaForsteriana.....	2½	15	\$2 50
" " " " " " " "	3	20	3 00
" " " " " " " "	4	25	3 50
" " " " " " " "	5	30	4 00
Kentia Balmorea.....	2½	12	12 00
" " " " " " " "	3	15	15 00
" " " " " " " "	4	18	18 00
" " " " " " " "	5	20	20 00

ROSES.

To florists desiring large Roses for spring sales in the most popular varieties we can not recommend the following list too highly. Our stock is extra strong from 5-inch pots—field grown and Plants are larger than those usually sold from 6 inch pots. We offer the following from 5-inch pots at \$25 per 100; 25 sold at 100 rates.

EROLE DE LYON, HERMOSA, QUEENS SCARLET, MME. ETIENNE, MME. SCHWALLER, MALMAISON,	DUCHESSE DE BRABANT, THE GEM, MME. JOS. SCHWARTZ, LA FRANCE, LOUIS PHILIPPE, COQUETTE DE LYON.
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We have a limited number of the following from 6-inch pots at \$5 per 100
HERMOSA, ETOILE DE LYON, MADAME ETIENNE, THE GEM, QUEENS SCARLET, DUCHESSE DE BRABANT.

DUCHESSE OF ALBANY, 5-inch at \$25; 4-inch at \$15; 2½-inch at \$5 per 100.

ROSES FOR FORCING.

We have an immense stock of young healthy Roses for forcing made from growing wood.

PERLE DES JARDINS, PAPA GONTIER, LA FRANCE, E. CATH. MERMET, THE BRIDE, NIPHOLOS

Price from 2½-inch pots \$5.00 per 100, 3-inch pots \$5.00 per 100. All the standard bedding Roses at \$4 per 100, \$40 per 100. Send in your list to be priced.

ROBT. SCOTT & SON,

19th and Catherine Sts., PHILADELPHIA, PA.

Chrysanthemums.

Catalogue with description of my two new sets now ready. Sent on application.

The following varieties are offered at \$4.00 per 100 for cash:

KIOTO, L. B. BIRD, H. CANNELL, GOLD, PURITAN, GLORIOSUM, CULLINGFORDII, GRANDIFLORUM, M. E. NICHOLS, L. CANNING, E. G. HILL.....	\$10.00 per 100
W. H. LINCOLN.....	6.00 per 100
Avalanche.....	8.00 per 100
Louis Ruchmer.....	5.00 per doz.
H. E. Widener.....	1.00 per doz.

JOHN THORPE

PEARL RIVER, NEW YORK.

CHRYSA NTHEMUMS.

—All Prize Takers of 1890.—

I have over 250 varieties of the very best Chrysanthemums exhibited last year, and am now prepared to furnish plants at moderate prices.

Will send 100 strong plants, one hundred different kinds, all good ones, my selection, for \$4, or will send 200, each different, and containing all the most valuable and popular kinds of the past season, for \$5.00.

All Plants Guaranteed to be in First-Class Condition. Send for descriptive circular giving full descriptions and prices to

O. P. BASSETT,

HINSDALE, ILLINOIS.

CHRYSA NTHEMUMS.

HOLLIS' SEEDLINGS of 1890.

Nine distinct and choice varieties. Prospective prize winners of \$50 and \$100. Best quality and lowest price.

35 to 50 cents each: \$3.00 for the set. Send for descriptive list.

GEORGE HOLLIS, South Weymouth, Mass.

Waban Rose

READY MAY 15.

From 2½-inch Pots.	From 4-inch Pots.
1 Plant, \$1.00, 250 Plants, \$50.00.	1 Plant, \$1.50, 50 Plants, \$49.00.
12 Plants, 9.00, 500 Plants, 175.00.	12 Plants, 15.00, 100 Plants, 75.00.
100 Plants, 50.00, 1000 Plants, 300.00.	25 Plants, 25.00.

The following Agents have been appointed to sell the Rose in the respective territories given below:

WM. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th and Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

ROSES. * ROSES.

WABAN, SOUVENIR DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other New and Standard Varieties of TEAS; Hybrid Remontant, including HEINRICH SCHULTHEIS, which is by far the best early forcing Hybrid. This is the variety which MR. JULIUS ROEHRHS has forced so successfully for the past three years. Also all the best varieties of

HYBRID TEAS, CHINAS and BOURBONS.

For forcing, bedding, etc., etc., all of which I have an EXTRA fine stock now ready for shipping at prices as low as any one can produce such stock for. NEW PRICE LIST TO THE TRADE NOW READY.

JOHN N. MAY,

SUMMIT, - - - NEW JERSEY.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices Now Ready.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

SAN FRANCISCO, CAL.

Mention American Florist.

SURPLUS STOCK.

Primula Obconica, 2½-inch.....	Per 100 \$4.00
" " " " " " " "	8.00
Coleus Golden Bedder and Setting	
Sun, 2-inch.....	3.00
Vinca Rosea, very fine, 2½-inch.....	3.00
Vinca Alba, very fine, 2½-inch.....	3.00
Echeveria Secunda Glauca, strong plants.....	3.00
Echeveria Secunda Glauca, very strong, 3-inch.....	5.00
Dahlias, field grown roots.....	5.00
Amaryllis Formosissima, very choice stock.....	8.00

Address MICHEL PLANT AND SEED CO.,

St. Louis, Mo. Mention American Florist.

IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best results to the florist. Blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMICA PLAIN, (Boston), MASS.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSA NTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40, Column, \$14.00.
Cash with Order.**No Special Position Guaranteed.**Insertions, 6 times, 5 per cent; 13 times, 10 per cent;
20 times, 20 per cent; 52 times, 35 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
flowers pertaining to those lines only. Please to
remember it.Orders for less than one-half inch space not accepted.
Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

IN THE HURRY of getting up the late advertisements for last issue a most unfortunate error occurred whereby the engraving of the ventilating apparatus manufactured by the Quaker City Machine Works was placed in the adv. of Mr. E. Hippard instead of the engraving of Mr. Hippard's apparatus. We presume there are red hot letters on the way from both these advertisers. We very much regret the blunder and trust that we shall be forgiven in view of the enormous rush of work at the time. If some of our readers in want of ventilating apparatus will place immediate orders with these gentlemen we have no doubt they will be considerably mollified. Both the apparatuses are good and readers would do well to look into their merits. The advs. will be found in this issue, each with its proper cut.

WE SHOULD have stated in last issue that the engravings of *Croton variegatum*, *anthurium* and *Passiflora Watsoniana* were made from colored plates issued by *L'Illustration Horticole*. Another fact that should have been noted, but was overlooked, is that the arrangement of plants and flowers shown on the title page was by Mr. H. H. Battles of Philadelphia, who very happily worked out for us the idea suggested to him.

AS A SAMPLE of what some people expect Mr. Manda sends us a postal card recently received by the U. S. Nurseries. It reads: "Please send catalogue. If you have plants for free distribution please send me some."

REPLYING TO E., we do not know of such a party at Chicago, and think you are correct in your belief that he is a fraud.

Catalogues Received.

Fred W. Kelsey, New York, nursery stock; Samuel C. Moon, Morrisville, Pa., nursery stock; Ketten Freres, Luxembourg, Europe, roses; Max Deegen, Krotzitz, Germany, plants; Shady Hill Nurseries, Cambridge, Mass., nursery stock; The Jewell Nursery Co., Lake City, Minn., currants; Selover & Atwood, Geneva, N. Y., nursery stock; W. J. Hesser, Plattsburgh, Neb., plants; Gillett & Horsford, Southwick, Mass., hardy plants; Harlan P. Kelsey, Linville, N. C., nursery stock; W. L. Swan, Oyster Bay, N. Y., plants and seeds; Falls City Wire Works, Louisville, Ky., florists' wire designs; Thomas S. Ware, Tottenham, London, England, hardy plants; same, climbing plants; same, hardy florists' flowers; same, hardy perennials and Alpine plants; W. & J. Birkenhead, Sale, Manchester, England, ferns.

Coming Exhibitions.

March 25-26, Montreal.—Spring exhibition Montreal Gardeners' and Florists' Club.

March 31-April 3, Boston.—Spring exhibition Mass. Hort. Society.

April 7-11, New York.—Spring exhibition New York Florists' Club.

April 14, Los Angeles, Cal.—Rose show Southern California Floral Society.

April 16-17, Syracuse, N. Y.—Spring exhibition Central New York Hort. Society.

April 22-23, Baltimore.—Spring show Gardeners' Club of Baltimore.

May 6-8, San Francisco.—Annual flower show California State Floral Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

Violet Crops.

Will some of the correspondents of the FLORIST kindly give me an estimate of the number of salable blooms that should be cut from a house 100x11, with 800 square feet of bench room, with the Marie Louise double violet, and for the same space from the Victoria Regina single violet from Oct. 1 to April 1. J. L.

Woodlice.

Will some of your numerous correspondents please tell me and others the best way of destroying that abominable pest to orchids, viz: woodlice.

GERMANTOWN.

THE AMERICAN FLORIST CO.'S≡≡≡ **TRADE** ≡≡≡**DIRECTORY**

OF { **FLORISTS,
NURSERYMEN,
SEEDSMEN,**

OF THE
UNITED STATES AND CANADA,

1890.

No one in the Trade can afford to be without it.

PRICE, \$2.00.

ADDRESS:

AMERICAN FLORIST CO.

54 La Salle Street, CHICAGO.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,

NEW ROCHELLE, N. Y.

New and

Rare Plants

Hardy

Plants.

CUT ORCHIDS AT ALL TIMES.

ORCHIDS.**Palms, Ferns.****Tuberous Begonias a Specialty.****A FRESH CONSIGNMENT OF****MEXICAN ORCHIDS**

Such as *Lucia* anthers (winter bloomer), *Lucia alba*, *Cattleya citrina* (extra fine), *Epipedium vitellinum* majus, *Odontoglossum aureum* (true), *Odontoglossum maculatum*, *Oncidium ornithorhynchum*, etc., etc. at very low prices.

Write for price list.

P. O. Box 332, South Orange, N. J.

ORCHIDS.**CYPRIPEDIUM SPECTABILE****AND PARVIFLORUM.**

Five plants \$8.00 per 100.

ORDERS BOOKED NOW FOR FALL DELIVERY.

JAS. GILCHRIST, Florist,**GUELPH, CANADA.****Surplus Stock**

	Per Doz	Per 100
Abutilon Eclipse, 2 in.	\$5	\$4 00
Golden Bells,	60	4 00
in variety	50	4 00
Agatha Celestis (blue daisy),	60	4 00
Akebia Malvarivens,	60	4 00
Crape Myrtle, 3 colors 3 1/2 in.	1 00	
Feverfew, Little Gem 3 1/2 in.	75	5 00
Germanium, standard sorts	60	4 00
scented 2 in.	60	4 00
Gnaphalium Lanatum	60	4 00
Germanium, Mad. Salerol	60	4 00
Hibiscus, in variety 4 in.	1 00	8 00
2 1/2 in.	75	5 00
Ivy, English and variegated 2 1/2 in.	60	4 00
Lantana, standard sorts 2 in.	60	4 00
best white 4 in.	1 00	8 00
Mesembryanthemum Cor. Var. 2 in	60	4 00
Nierembergia Gracilis 2 in.	60	4 00
Pilea Muscosa 2 in.	60	4 00
Plumbago Capensis 4 in.	75	5 00
Plumbago Capensis Alba 2 in.	60	4 00
Roses, Hermosa, M. Guillot, Mad. Jos. Schwartz, 2 in.	60	4 00
Roses, Bride, La France, Perle, Mermel, M. Guillot, Gontier, 3 in	75	5 00
Roses, Countess de la Barthe, Cornelia Conk, Camoens Mad. Sotelo Cochet, Mad. Cecil, Brunner, M. Niel. The Bride, Souv. de St. Pier, Gualan Gent. Jacq. 2 1/2 in.	60	4 00
Verbenas, standard sorts, 2 in.	30	3 00
Vesta, finest white, 2 in.	60	4 00
cuttings,	1 00	
Verbenas, general collection, \$7 per 1000	75	

A. GIDDINGS, Danville, Ill.**Tuberous Begonias**

in six separate colors, per 100, \$3; mixed, \$2.75. Double, \$4 50; mixed, \$4 00. Try some this summer, it will pay you, and you will want them again.

BRAUER & RICHTER, McConellsville O**COLEUS.****ROOTED CUTTINGS****Now Ready.**

In all the leading varieties at 75 cents per 100; \$6 00 per 1000.

MRS. S. P. CUSHING, Weymouth, Mass.**MRS. FISHER CARNATION.**

1000 nice pot plants, Dec. struck, at \$4 00 per 100. Apply at once. American Express here.

M. E. HUTCHINSON & CO., Portsmouth, N. H.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept.)

All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

C. H. FISK, WHOLESALE FLORIST & DEALER IN

FLORISTS' SUPPLIES,

116 Dearborn Street, CHICAGO.

OPEN NIGHTS AND SUNDAYS.

WIRE DESIGNS IN STOCK

E. J. HARMS, Wholesale Dealer in CUT FLOWERS, And Florists' Supplies.

89 Wabash Ave., CHICAGO.

Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese, Wholesale Cut Flowers, 66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
given to shipping orders.

CUT FLOWERS.

The Western Trade Solicited.

Write or Telegraph.

SMITH FLORAL CO.,

77 7th Street S. - Minneapolis, Minn.

C. STRAUSS & Co. GROWERS OF CUT FLOWERS.

(—) WHOLESALE ONLY. (—)

SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

Lilies, Etc. for Easter

HARRISH,

LONGIFLORUM,

CANDIDUM.

— Prices on Application. —

GERANIUMS, Single & Double of the leading varieties, 2½-in. pots, at \$4 per 100; \$35 per 1000.
HYDRANGEA OTAKSA, from 5 to 10 inch pots, \$15 to \$50 per hundred.

W. A. BOCK, N. Cambridge, Mass.

Mention American Florist.

CATALOGUES. *

I MAKE 'EM, WITH CUTS

AND "KNOW HOW."

J. Horace McFarland,

..... HARRISBURG, PA.

Wholesale Markets.

Cut Flowers.

BOSTON, March 23.

EASTER PRICES AS QUOTED IN ADVANCE.

Roses, Hybrids, Jacobs.....	15.00 @ 25.00
" Bon Silens.....	8.00 @ 10.00
" Niphetos, Gontiers.....	6.00 @ 8.00
" Wootton, Watervilles.....	8.00 @ 10.00
" Mermetts, Brides.....	8.00 @ 10.00
" Perles, Sunsets.....	6.00 @ 8.00
" France.....	10.00 @ 15.00
Harrish, lilies.....	12.50 @ 16.00
Longiflorum.....	20.00
Candidum.....	6.00 @ 8.00
Asiatic, stocks.....	3.00 @ 4.00
Callas.....	15.00 @ 20.00
Carnations.....	3.00 @ 5.00
Valley tulips, Romans.....	4.00
Dafoedis, P. V. Romarous.....	4.00
Violets.....	25
Pansies.....	1.00
Saxifrage.....	25.00
Adiantum.....	20.00
Adiantum Farleyense.....	20.00
Asparagus.....	20.00
Heath, per bunch.....	50 @ 75
Orchids, per box.....	10.00 @ 10.00
Exotic primroses per bunch.....	15

NEW YORK, March 23.

EASTER PRICES.

Roses, Beauties, Hybrids.....	15.00 @ 20.00
" Bon Silens.....	2.00 @ 4.00
" Gontiers.....	4.00 @ 6.00
" Perles, Niphetos, Soures.....	8.00 @ 10.00
" Mermetts, Brides.....	8.00 @ 10.00
" Watervilles, Cousins.....	8.00 @ 10.00
" Brides.....	10.00 @ 15.00
" La France.....	10.00 @ 15.00
" Wootton.....	6.00 @ 8.00
" France.....	10.00 @ 20.00
Romans, Dafoedis.....	2.00 @ 4.00
Valley tulips.....	2.00 @ 4.00
Carnations, long.....	2.00 @ 4.00
Violets.....	1.00
Harrish.....	12.00 @ 15.00
Lilies per bunch.....	1.00

Prices at date same as last week.

PHILADELPHIA, March 23.

Roses, Beauties.....	20.00 @ 25.00
" Bon Silens.....	2.00 @ 4.00
" La France Albany.....	5.00 @ 10.00
" Langes, Louise Maréchal.....	8.00 @ 10.00
" Mermetts, Brides.....	8.00 @ 10.00
" Wootton, Bonnets.....	5.00 @ 8.00
" Niphetos.....	3.00 @ 5.00
" France.....	10.00 @ 20.00
" La France, Cousins, Watervilles.....	6.00 @ 8.00
Carnations long.....	1.00 @ 1.50
short.....	2.00 @ 4.00
Valley.....	2.00 @ 4.00
Harrish, short.....	10.00
Harrish, long.....	2.00 @ 5.00
Tulips.....	4.00
Dafoedis.....	35 @ 50
Violets, double.....	20.00
Saxifrage.....	1.00
Adiantum.....	1.00

CHICAGO, March 23.

EASTER PRICES.

Roses, Bon Silens.....	4.00 @ 6.00
" Perles, Niphetos.....	4.00 @ 6.00
" Mermetts.....	5.00 @ 10.00
" Brides.....	5.00 @ 10.00
" Beauties.....	15.00 @ 30.00
" Gontiers.....	9.00 @ 10.00
" Benetts.....	6.00 @ 9.00
" La France.....	6.00 @ 10.00
" Jacia.....	12.00 @ 18.00
Albany.....	10.00
Carnations, short.....	2.00 @ 3.00
Carnations, long.....	2.00 @ 3.00
Carnations, long, fancy.....	3.00 @ 4.00
Valley, Romans.....	4.00 @ 5.00
Callas.....	15.00 @ 20.00
Candidum, short.....	4.00 @ 5.00
Candidum, long.....	5.00 @ 10.00
Violets.....	75 @ 1.00
Bonardias.....	2.00 @ 2.50
Tulips.....	4.00 @ 6.00
Dafoedis.....	4.00 @ 5.00
Dutch hyacinths.....	5.00 @ 8.00
Saxifrage.....	20.00 @ 22.00
Adiantum.....	1.25 @ 1.50

WM. J. STEWART,

Cut Flowers & Florists' Supplies

— WHOLESALE. —

67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.

Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,

And the Choicest ROSES for the
fall and winter season.
Mention American Florist.

W. S. ALLEN,

Wholesale Dealer in Cut Flowers

36 EAST 23rd STREET, NEW YORK.

[ESTABLISHED 1871.]

Price List sent upon application.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,

No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

FRANK D. HUNTER,

WHOLESALE DEALER IN

CUT FLOWERS

51 West 30th St., NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST

53 WEST 30TH STREET,

NEW YORK.

A. S. Burns. J. I. Raynor.

BURNS & RAYNOR,
WHOLESALE FLORISTS,

11 West 28th St.,

NEW YORK.

J. M. McCULLOUGH'S SONS,

Wholesale Commission Dealers in

CUT FLOWERS.

134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES:

ROSES, CARNATIONS AND ORCHIDS.

LaRoche & Stahl,
Florists and Commission Merchants

— OF —

1237 Chestnut Street, - PHILADELPHIA.

Consignments Solicited. Special attention paid to
shipping. Mention AMERICAN FLORIST.

ELLISON & KUERN,
— WHOLESALE —
FLORISTS,

1122 PINE STREET,

ST. LOUIS, MO.

WHOLESALE CUT FLOWERS AND
FLORISTS' SUPPLIES.

THE WISCONSIN FLOWER EXCHANGE,

183 Mason Street, MILWAUKEE, WIS.

Re Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president. JOHN FOTTLER, Jr., Boston secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1897.

Seed Warranty.

Have carefully read "A practical guaranty" in your number of March 12. It seems to me any practical man will at once brand it a delusion and a snare. It seems to be a guaranty made out of an old sieve and will not hold water. The best guaranty to get with seeds is, buy them from some good honest, intelligent seed house.

It has been proven to the full satisfaction of every seedsmen that they cannot afford to guarantee seeds, and to undertake to make them do so, would drive out of the business any house that is worth a law suit.

Not many years ago a farmer bought of a New York house a small quantity of cabbage seed. He claimed that he planted the seed, that it grew well but failed to make heads, so brought suit for the recovery of the crop. The case was tried in a New York City court, before a jury of Chatham street clothiers. The plaintiff had a smart lawyer who managed to prove to the satisfaction of the jury that the cabbages did not head up, but if they had headed, he would have had so many thousand heads. He also proved that cabbages were scarce that season and sold readily for 8 cents per head, which would have amounted to so much and gave judgment for the plaintiff for \$2,500 (Two thousand five hundred dollars) for one and one-half pounds of cabbage seed (1½ lbs.), purchase money \$6.00! I recollect right. At that rate it would not take a very large bag of this kind of cabbage seed to ruin most of our seedsmen.

If our friend who wants to give a "practical guaranty" gets a small dose of that New York cabbage medicine, it will either kill or cure him. There were some very strange things shown up in that trial. The plaintiff produced in court the paper bag in which the cabbage seed had been delivered to him some 18 months or two years previous and which he had saved in a drawer until the trial. There was nothing to prevent that man (had he been so disposed) from going to another seed house and buying as much rape seed as he did cabbage, plant the rape and destroy the cabbage seed, only keep the paper bag until he got ready to make the seedsmen pay for his crop, without the trouble or expense of marketing, easily proving by his neighbors that his cabbages did not head and were worthless. It was this case which caused the seedsmen to prepare and adopt the disclaimer so generally used now on invoices and catalogues in the seed trade.

SEEDS.

READERS of the FLORIST who know of positive errors made by U. S. Appraisers in duties levied and collected which have never been refunded, are invited to send us full particulars of their cases. We know there is wide spread dissatisfaction and believe good cause for it. How much we can locate we are anxious to know, and believe if we secure sufficient and effective data it will be the beginning of a much needed reform.

Z. DE FOREST ELY & Co.,

WHOLESALE

Seed Growers and Merchants.

Carry one of the most complete and extensive stocks of **GARDEN SEEDS** in the United States. We make a specialty of **GROWING PEAS** and **BEANS**, **AMERICAN TURNIP** and **CABBAGE SEEDS**, **ONION SETS** and **PURE SEED POTATOES**. We cater to the Jobbing trade. **WRITE FOR PRICES.**

NOW READY.

	Per 100	Per 1000
TUBEROSES, DOUBLE PEARL		
Fine Large Bulbs.....	\$1 00	\$ 7 50
GLADIOLUS, FINE MIXED	1 25	10 00
EXTRA CHOICE	1 75	15 00
SHAKESPEARE	7 50	

Also Importers of

Bulbs for Florists.

Dutch and Roman Hyacinths, Tulips, Narcissus and True Bermuda Lilies, (L. Har- risii.) Special import offer for Fall and Summer of 1897 **NOW READY.** Do not fail to write for it. Liberal terms, fair prices, selected quality and square business treatment. Address

Z. DE FOREST ELY & CO.,

1301 and 1303 Market Street,

and 246 North Broad St.

Registered Cable Address, DEFOREST, Phila.

PHILADELPHIA, PA.

P. O. BOX 1176

TELEPHONE 1298.

FLOWER SEEDS.

FOR PRESENT SOWING.

ASTER Truffaut's Prize, Penny-flowered, choicest mixed, per trade packet 50 cents; per oz. \$2.00	
BALSAM White, Striped, Alder, Purple, each per trade packet 50 cents; per oz. \$2.50	
Perfection Extra, double white, per trade packet, 50c.; per oz. \$1.20.	SWEET PEAS Eckford's Choicest Mixed, per oz. 30 cents; per lb. \$1.00.

Henry A. Dreer,

714 Chestnut Street,

PHILADELPHIA.

USE FERRY'S SEEDS

BECAUSE THEY ARE

THE BEST.

D. M. FERRY & Co's
Illustrated, Descriptive and Priced

SEED ANNUAL

For 1891 will be mailed FREE to all applicants, and to last season's customers. It is better than ever.

Every person using Garden, Flower or Field Seeds, should send for it. Address

D. M. FERRY & CO.
DETROIT, MICH.
Largest Seedsmen in the world

G. J. MOFFATT,
Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.

Samples and prices on application. When writing for prices, please state sizes and quantity wanted.

Do you want the

BEST SEEDS?

If so, send to

SCHLEGEL & FOTTLER,
Growers and Importers,
BOSTON, - - MASS.

Jos. F. DICKMANN has commenced the seed business at Gravios and Oregon Aves., St. Louis, Mo.

FLOWER SEED.
CHOICEST STRAINS FOR FLORISTS.
1891 trade list now ready, and mailed free on application.
AUGUST RÖLKER & SONS,
136 West 24th Street,
NEW YORK, STATION E.

W. W. Barnard & Co.,
6 & 8 North Clark Street, CHICAGO.

SEEDS, BULBS, IMPLEMENTS.

Please write us if you fail to receive our trade list for Florists.
Illustrated Seed Catalogue mailed free to any address.

Parsons & Sons Co.

LIMITED.

Kissena Nurseries, Flushing, N. Y.

offer

Rhododendrons

of American grown hardy sorts.

Hardy Azaleas.

For other rare and old plants see Catalogue

I WANT ROOM

And will sell Geraniums	
Named 1, 2½-inch pots.....	\$3 00 per 100
Mixed.....	2 00 "
Named Rooted Cuttings.....	1 50 "
Mixed.....	1 00 "
New Achillea alba n. pl. (Tae Gen) 2½ in. pots.....	3 00 "

JAMES FROST, Greenville, O.

VERBENAS.

— NOW READY. —

General Collection 2½-inch pots	Per 100	\$3.00	\$25.00
XX Mammoth set		4.00	30.00
Rooted Cuttings		1.25	10.00
General Collection		1.00	8.00
COLEUS Golden Verschaffeltii Golden		1.25	10.00
Bender and Verschaffeltii		1.00	8.00
And 25 other best sorts		1.00	8.00
Heliotrope Rooted Cuttings, named		1.25	10.00
Calceolarias		1.50	12.00
Ageratum		1.25	10.00
Salvia Splendens		1.25	10.00
Fuchsias		2.00	16.00
Lowflower, The Gem Rooted Cuttings		2.00	16.00
Begonias Habra, Metallica, etc.		2.00	16.00
Japan Verbenas strong 1 year old		3.00	24.00
Vincas, strong 1 year old		3.00	24.00
Ampelopsis Vitchii strong plants		5.00	40.00
Chrysanthemum varieties and prices on application			
ROSES, extra fine plants, Perles, Mermet, Bride, Mme. Lavin, etc.			
Walterville, S. Dan Ami, Niphetos, Sunset, La France Cook, Grotto, Bon Silene, Safrano			45.00
Duchess of Albany			10.00
Mme. Thérèse and sour, de Wootton			5.00
Trade List of Florists' Stock Free.			

WOOD BROTHERS,

(Successors to I. C. WOOD & BRO.) FISHKILL, N. Y.

VERBENAS.

PERFECTLY FREE FROM RUST.

20 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$25.
 Rooted cuttings of same, 100 \$3; 1000 \$9.
 Fine stock Heliotrope, 2½-inch, \$3 per 100.
 Primroses, double, per 100 \$12.00.
 single, per 100 \$6.00.
 Geraniums—latest Novelties.
 Lantana borbonica, 5 inch \$4.00, 4-inch \$3.00 per dozen.
 Miscellaneous stock of all kinds.

ROSES.

Mad. Hoste, La France \$5.00 per 100.
 Duchess of Albany \$7.00 per 100.
 Grotto, Perles, Mermet, Bon Silenes, Brides, Niphetos and 50 varieties of monthly roses, \$4.00 per 100 or \$35 per 1000.
 H. P.'s purchaser's choice, \$6.00 per 100 or \$50.00 per 1000.
 H. P.'s, our choice, \$5 per 100 or \$40 per 1000.

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

SURPLUS VERBENAS.

SPEAK QUICK! THIS OFFER FOR TWO WEEKS ONLY.

2½ inch pots, - \$2 per 100; \$15 per 1000
 Rooted Cuttings, 75c. per 100; \$7 per 1000

Address **J. G. Burrow,**
 FISHKILL, N. Y.

E. G. HILL & CO.,

RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAPLES:

ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported

FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.

PALMS AND DRACENAS.

Largest stock in the West. Over fifty varieties of PALMS at \$1.00 to \$10.00 each.
 CYCAS REVOLUTA, 25 cts. to \$15.00 each.
 DRACENA INDIVISA, AUSTRALIS and TERMINALIS, 5 cts. to 15 cts. each.
 CACTUS, AGAVES and YUCCAS.

Send for price list.

W. J. HESSER, Plattsmouth, Neb.

DOUBLE WHITE PRIMROSE PLANTS.

Five large, heavy plants, from 3 and 5-in. pots, at \$10, \$15 and \$25 per 100.

Dracena indivisa from 2 and 3-inch pots, at \$4, \$8 and \$12 per 100, strong stock.

Also Single Primrose, Calceolarias, Pallas, all sizes; Saxif. Echeverias, Alternantheras etc. Also the new and beautiful varieties of "Golden Gem," Chrysanthemums, roses, Violets and other stock. Write for price list.

HYACINTHS, 3½-in. pots, named sorts, \$2 and \$3; 7 per 100. In good condition for shipping.

CYCLAMEN Gleumatum & Persicum best strains very choice stock 4 in. and 5 in. pots, \$1.00; \$8 & \$10.

H. P. ROSES, summer grown, fine young plants in best sorts, \$5.00 per 100; \$45 per 1000.

F. A. BALLER, Bloomington, Ill.



ORDER NOW FOR SPRING TRADE

Hardy Shrubs for Eastern Gardens.

JAPAN MAPLES in 20 choice sorts.

Japan Magnolias; Stellata, Conspicua, Parviflora, etc.

Tree & Herbaceous Peonias, Iris Kimpferi in newest magnificent coloring.

Hardy Conifers, New sports of Retinosporas.

MINIATURE JAPAN CONIFERS.

Cycas Revoluta Stems greatly reduced.

Araucarias, Tree Ferns, Bamboos.

We furnish RELIABLE goods at correspondent rates.

Send for Catalogue to
H. H. BERGER & CO.,
 P. O. Box 1501, SAN FRANCISCO, CAL.

Hydrangea Grandiflora.

We ask the attention of Dealers and the Trade to our large stock of **HYDRANGEA GRANDIFLORA**, nice well grown plants at very low prices, viz:

HYDRANGEA GRANDIFLORA. 2 year, 2 to 2½ feet, strong, Price, \$7.00 per 100; \$60.00 per 1000.

HYDRANGEA GRANDIFLORA. 2 year, second size, 18 to 24 in., good. Price, \$6.00 per 100; \$50.00 per 1000.

HYDRANGEA GRANDIFLORA. 1 year, 8 to 12 inch, fine mailing plants. \$5.00 per 100; \$40 per 1000.

Samples on application with plants. Correspondence solicited.

ADDRESS **THE DINGEE & CONARD CO.,**

West Grove, Pennsylvania.



JAPAN SNOWBALL.

Blooms freely every Spring. Flowers unsurpassed for florists' use. Over \$150 realized last Spring from flowers sold at wholesale, from less than 300 2 year old plants.

PRICE: 12 to 18 inches, \$2.00 for 10; \$18.00 per 100
 2½ to 3 feet, \$3.00 for 10; \$25.00 per 100

Wholesale Catalogue with colored plate of Japan Snowball free.

HYDRANGEA PAN. GRAND. Our one year old plants are superior to any offered, and lower priced. 2 to 4 stems 18 to 24 inches, 75c.

for 10; \$6.00 per 100; \$50.00 per 1000.

2 to 2½ feet, \$1.25 per 10; \$10.00 per 100.

MEEHAN'S NURSERIES,

STATION G, GERMANTOWN, PHILADELPHIA.

200,000 RUST AND MILDEW.

Microscopic examination shows no trace of the verbenia mite.

Our collection of sixty varieties contains the

Finest Old and New Varieties

fully as healthy as seedlings, and beyond comparison in color and habit. We are able to root 30,000 to 50,000 per week and can fill all orders in a reasonable time.

Plants, - per 100, \$2.50; per 1000, \$20.00; 5,000, \$90.00.
 Rooted Cuttings, \$1.00; \$8.00; \$35.00.

THE FOLLOWING UNSOLICITED TESTIMONIALS WERE RECEIVED 1st MARCH MAIL TO DATE, FEB. 20th:

BUFFALO, N. Y., Feb. 19th.—Received verbenas. They were very satisfactory. Thanks for good count and

CANTON, O., Feb. 18th.—Received verbenas in good condition except Crystal (retailed). All the others are splendid.

ALEXANDRIA, VA., Feb. 19th.—The plants arrived yesterday in good condition. Thanks to you for your promptness and liberality.

SENTE FOR PRICE LIST.

J. L. DILLON, Bloomington, Pa.

DON'T FAIL to secure a few plants of that wonderful VERBENA

CLIMAXER. Have never seen a better, all plants considered (see ad. in January No.) Ready now 6 for 5; 12 for \$1.25 for \$1.50. Heavy stock, perfectly healthy. By the 100 and 1000 in March and April. See other special offers.

J. C. GIBSON, WOODBURY, N. J.

2 000 Gen'l Jacq. Rose plants, 4-in. pots, per 100, \$5.00.
 Colored Cuttings rooted, Verschaffeltii, Golden Wonder, Golden Verschaffeltii and Sunset, per 1000 75 cts. per 1000, \$7.00

JOHN RECK, Bridgeport, Conn.



TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and

Requisites. They are the best at the lowest prices.

TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,

Philadelphia

Narcissus and Romans.

In answer to "Enquirer" in your issue of March 12, how best to treat "Narcissus and Romans to have them flower by December 1, or even by Christmas," I would refer him to that very plain and excellent paper read by Mr. Ernst Assmus at the Chicago convention of the S. A. F. If he hasn't that valuable paper at hand, the following brief directions will assuredly bring success, providing bulbs when procured are sound:

As soon as received those wanted for early forcing should be planted in flats at once, top of bulbs about even with surface of soil; one good watering is sufficient. Place the flats out of doors in any dry spot and cover with three or four inches of soil or tanbark—no matter which. If planted end of August, a few can be brought into the house by first of October. These will flower in November. For a Christmas crop bring them in about the middle of November. Their time of flowering can be regulated by the temperature you give them in the house. Roman hyacinths will bear a strong heat without much injury to quality of flowers, but Paper White narcissus should be grown as cool and light as possible. If Enquirer attempted to force Von Sion narcissus for December and Christmas, very little wonder he failed. Von Sion cannot be got in any perfection before the middle of January. Bulbs of the common daffodil are sometimes sold for Von Sion. The bulbs of the former are much smaller than those of Von Sion and the flowers have many green petals in them.

I have often noticed when visiting other florists' places that their bulb boxes consisted of all sizes and shapes, sometimes six inches deep, sometimes only two inches. For some years I have used only a uniform size which is twelve inches broad, twenty-four inches long and three inches deep. They are made of 3-inch strips 1/2-inch thick for bottom and sides, and the ends one inch stiff. These boxes hold fifty Paper White or Von Sion, sixty Roman hyacinths and the larger kinds of tulips and seventy-two of the smaller kinds of tulips. The material for these boxes, sawed out at planing mill, costs about five cents each. I have with the help of a boy, often put seventy-five of them together of an evening, after the men were gone home and other florists were out at "lodge meeting."

Buffalo, N. Y. W. SCOTT.

Mealy Bug on Coleus.

How can I kill the mealy bug on my coleus without killing the plants? Is there any way to accomplish it, other than hand picking?

A. B. S.

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES
OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale Importers should write us for prices.

LILY OF THE VALLEY PIPS.

(Selected strong 3-year-old Pips.)

For terms and particulars apply to

WM. HAGEMAN.

Eight and McKean Sts., Philadelphia, Pa.
Sole agent for the U. S. for the United Hamburg and Berlin Growers. Office Hamburg, Germany.
Highest U. S. reference furnished as to quality.

IMPORTANT^{TO ALL} FLORISTS.

Our new trade list of 50 pages and our descriptive catalogue of 100 pages is now being mailed to you. Should you not receive a copy within a few days, notify us and we will send you one.

Without any desire to brag we assure you we have the largest and best collection of Chrysanthemums in the country.

All stock is bloomed before propagated from. Our list contains over 600 varieties. We also publish a list of 570 onyms in our catalogue.

Pamphlet of "Summer Flowering Bulbs" 20 pages mailed on application. Price \$5 per 100. Our name does not appear in the pamphlet, therefore it is highly valuable for those having a counter trade. Our list of dormant bulbs is the largest and finest of any in the country.

We have so much of interest to florists and others in our catalogue that we cannot begin to mention any.

Blanche Perry Sweet Pea, proved of great value last year as a cut flower. We have a large stock of fresh seed at 10 cents per cz; \$1.00 per lb.

You will bear in mind we told you last year that Chrysanthemum V. H. Hallock was a good one. You will hear from this later on. We also recommended Charity and White Cap on our last year's set as being particularly valuable for florists' use. Prices in quantity on application.

V. H. HALLOCK & SON,
QUEENS, N. Y.

SYNDICATE

— OF —

BULB GROWERS,

Ollioules, var. France.

SPECIAL CROP OF
White Roman Hyacinths,
AND OTHER FRENCH BULBS.

☞ L. AURATUM, ☞ LARGE STOCK ☞
☞ L. RUBRUM, ☞ SOUND BULBS ☞
☞ SPIDER LILIES, ☞ CLOSE PRICES. ☞

"Book for Florists," Ready. Free. J. C. VAUGHAN, CHICAGO.

LILY OF THE VALLEY!
TRUE BERLIN PIPS.

3 yrs old, dormant, warranted in perfectly sound condition.

Price per original case of 2,500 pips, \$24;
per 10,000, \$100; 1,000, \$10;
per 100, \$1.50.

Order now, as stock is limited.

TERMS CASH.

A full line of Summer flowering Bulb Seeds. Plants and Florists' Supplies, furnished at lowest market prices.

Catalogues free to applicants. Address,
J. A. DE VEER,
18 BURLING SLIP, NEW YORK.

CUT SMILAX.

I make a specialty of Smilax, and am prepared to fill orders promptly. Price, 20 cents per string (10 May 10). Quality A. L. JOSEPH E. HONNALL, Telephone No. 15. 308 Garfield Ave., Salem, Ohio.

SPECIAL LOW PRICE
Lilium Harrisii and Longiflorum Bulbs

Having just returned from a trip to the Bermudas where I went to have a good look after the Easter Lilies, and having made arrangement with the largest growers of those beautiful bulb for a large quantity of their crop, we are now able to offer good healthy and pure bulbs—June and July delivery, at the low rate of:

	Per 1000
4 to 5-inch circum	\$ 35.00
5 to 7-inch "	45.00
7 to 9-inch "	70.00
9 to 11-inch "	115.00

LILIAM LONGIFLORUM same price and sizes as above. Delivery in August. Please order before May and deliver. Yours respectfully,

HULSEBOSCH BROS.,
P. O. Box 3118. NEW YORK CITY

VIOLETS.

M. LOUSE AND SWANLEY WHITE,
\$2.50 per 100. Write for prices on any miscellaneous stock you need.

McCrea & Cole, Battle Creek, Mich.

ORIGINAL AND LARGEST GROWERS OF
LILIUM HARRISII, BETTER KNOWN AS **THE BERMUDA EASTER LILY**.

BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 140 in length, of a crop of Liliium Harrisii in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it sells in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in. For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 20,000 bulbs for his own use. We hear it said occasionally that Liliium Harrisii flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing." The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**: supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from our CROP of 1890, over

— **HALF A MILLION BULBS.** —

Be sure you get the genuine Liliium Harrisii. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant L. Longiflorum in Bermuda, planting it with Harrisii to increase their stock rapidly when Harrisii was very scarce, thus mixing the stock irretrievably; thereby rendering it absolutely valueless for forcing and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand; "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Dahlia Growing.

I submit the following in response to the query about the propagation of dahlias:

About March 1, place the tubers on benches and partly cover them with damp ashes. Keep a temperature of about 65°. When the cuttings get two or three inches long take them off at the base and with a small knife take out the bottom eyes leaving only two or three at the top. By this means bushy plants on a singletem are secured. Prick them out in sandy soil and as they root pot off carefully into 3-inch pots. When well established harden them by placing out in cold frames, protected from frost until the season to plant out. Cuttings struck in February do not succeed so well out of doors as those struck the beginning of April as the earlier struck cuttings make meagre plants as well as taking up house room longer.

In planting out, a firm stake should support the leader and each of the branches should be tied out to lesser stakes as the plant grows. Unnecessary shoots should be pinched out.

By following this plan fine flowers are produced on bushy, shapely plants, such as to be creditable to any garden.

WORKINGMAN.

Ready Now!

One hundred thousand Rooted Cuttings and young plants of

CARNATIONS,

including Silver Spray, Tidal Wave, Nellie Lewis, L. L. Lamborn and Fair Rosamond, and seventy-five other new and standard varieties, with Novelties of 1891.

Send for list, and order early to avoid disappointment.

GEO. HANCOCK,

GRAND HAVEN, MICH.

Mention American Florist.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. Shelmire,

AVONDALE, PA.

Rooted Cuttings of Carnations

In great quantity, ready now.

Also 25,000 PEARL TUBEROSE BULBS
1st & 2d at \$7.50 per 1000.
2d size at \$5.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

CARNATIONS.
ROOTED CUTTINGS

Of new and old varieties at the lowest price possible to secure good stock from healthy plants. Seventy-five thousand will be ready by Feb. 1st. Send for catalogue or price list.

SEND ORDERS EARLY.

ISAAC LARKIN, Toughkenamon, Pa.

Carnation Cuttings.

Boxed off and well established. Send for Price List.

DE WITT BROS.,

BRISTOL, PENNSYLVANIA

Mention American Florist.

ROOTED CUTTINGS.

CARNATIONS: All sold until April 1st, will then have a large stock of the Standard sorts and Lizzie McGowan. Over 100,000 L. L. LAMBORN, MRS. FISHER and SILVER SPRAY. Send for Descriptive List with prices.

COLEUS, a choice assortment of the best bedders at \$6.00 per 1000, 75c per 100; Golden Bedder or Verschaffeltii alone \$7.00 per 1000.

CANNA EHEMANNI, strong roots at \$7.50 per 100. **EMILE LECLAIRE** \$8 per 100.

SMILAX.

This is one of my spring specialties and is gotten up in first class shape for \$6.00 per 1000; samples 10 cents.

PANSIES.

My Pansies are sold up to April and only a few left for then; they are the best in the market and delay will find them all sold. Orders are coming in for next fall; there is nothing like being on time.

L. E. 338.

ALBERT M. HERR, LANCASTER, PA.

LIZZIE MCGOWAN,

* * THE QUEEN OF WHITE CARNATIONS! * *

Will be ready for distribution February 10th, '91. Price, \$12 per 100; \$100 per 1000, for strong well rooted plants from cutting bench. Plants well established in small pots, \$3 per dozen.

Send for price and descriptive list of this and other sorts.

ADDRESS

H. E. CHITTY, PATERSON, N. J.

Mention American Florist.

Rooted Cuttings.

NOW READY. UNSURPASSED IN QUALITY.

GOLDEN GATE, - - - Grandest New Pure Yellow.
ROOTED CUTTINGS, \$1.50 per dozen; \$12.00 per 100; \$100.00 per 1000.

WM. F. DREER, - - - Magnificent, Fringed Rose Pink.
ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$90.00 per 1000.

J. R. FREEMAN, - - - Fragrant, Crimson Scarlet.
ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

CONSTANCY, - - - Glowing, Bright Scarlet.
ROOTED CUTTINGS, \$1.25 per dozen; \$10.00 per 100; \$80.00 per 1000.

FRED CREIGHTON, - - - Delicate, Soft Pink.
ROOTED CUTTINGS, 60 cents per dozen; \$4.00 per 100; \$35.00 per 1000.

For well established plants from small pots, see ILLUSTRATED CATALOGUE—free. ROOTED CUTTINGS, at prices per dozen, free by mail.

CHAS. T. STARR, Avondale, Chester Co., Pa.

Mention American Florist.



LIZZIE MCGOWAN THE NEW WHITE

CARNATION. ROOTED CUTTINGS, \$12 per 100, or \$100 per 1000.

Summit, N. J., December 6th, 1889.

MR. JOHN MCGOWAN,

Dear Sir:—I consider the Lizzie McGowan

Carnation the finest White in cultivation. JOHN N. MAY.

Ready for delivery Feb. 10, 1891. 500 at 1000 rate, 50 at 100 rate.

ADDRESS

JOHN MCGOWAN,

363 Main Street, ORANGE, N. J.

FRED CREIGHTON.

ROOTED CUTTINGS of this Superb Pink Carnation, \$4.00 per hundred; \$30.00 per thousand. From the original stock, which has not been forced or in any way made to produce an extra quantity of **CHEAP** Cuttings at the expense of the future well doing of the same.

To give all a chance to see what kind of flowers this stock produces, I will send a few flowers, free of charge, to any in the trade who apply to me by letter.

Send for new list, in which are described and priced some novelties and standard kinds.

GEORGE CREIGHTON, NEW HAMBURGH, N. Y.

F. A. RIECHERS & SOHNE, Act-Ges.

Import and Export Nurseries,
HAMBURG, GERMANY.

Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.

Wholesale Catalogue on application.

Asclepias Tuberosa, Lobelia Cardinalis, Platycodon, white Lily of the Valley clump, \$1.00 per 100. Rose and var. leaf Lily of Valley, 10c per 100. Double Pinks and German Iris, Golden, Lemon, and Dwarf Bar Lilies, Oriental Poppies, Hibiscus, Larkspur, lot every last year. Pansies, and many others. Virginia Creeper, Bostonia, Cestrum, Honeyuckle, Vinca—250,000 fine, hardy decorative plants VERY LOW. Catalogue to any address. R. M. WATSON, Old Colony Nurseries, Plymouth, Mass.

HENRY A. DREER, - PHILADELPHIA.

Special Offer of Novelties and Specialties in Plants and Bulbs,

Bulbs and Roots.

Anaryllis Formosissima.....	Per 100.....	\$3.00
Tretia Alba.....	.....	3.00
Amorphophallus Rivieri, first size.....	.....	20.00
" second size.....	.....	10.00
" third size.....	.....	5.00
Begonias, tuberous rooted, large single mixed.....	.....	5.00
Begonias, tuberous rooted, large double mixed.....	.....	25.00
Caladium, fancy leaved, in 25 finest named varieties.....	.....	15.00
Caladium Esculentum, first size.....	.....	7.00
" second size.....	.....	7.00
" third size.....	.....	5.00
Cannas, Dwarf French, in 12 very fine varieties, offered for the first time during 1890.....	.....	12.00
Canna Eleonora.....	.....	7.00
Emile Leclerc.....	.....	7.00
Robusta Perfecta.....	.....	7.00
Premiere de Nice.....	.....	7.00
Souv. de B. Des Champs.....	.....	7.00
Brenningsii.....	.....	7.00
Dahlia, strong growing roots.....	.....	10.00
Gloxinia Crassifolia Grandiflora.....	.....	8.00
Lilium Auratum, strong bulbs.....	.....	9.00
Lancifolium Album.....	.....	10.00
Rubrum and Roseum.....	.....	10.00
Madeira or Mexican Vine Roots.....	.....	2.00
Milla Bibora.....	.....	4.25
Tigridia Favonia.....	.....	4.00
Grandiflora Alba.....	.....	4.00
Tuberose, Pearl, per 1,000, \$11.00.....	.....	1.50
Italian.....	.....	1.50

Vines and Creepers.

Akebia Quigstea, strong 2 1/2 in. pots.....	.....	6.00
" 3 " " ".....	.....	8.00
Ampelopsis Veitchii.....	.....	3.00
Aristolochia Elegans.....	.....	15.00
Cymbifera.....	.....	25.00
Clematis, hardy, 25 leading varieties.....	.....	30.00
Honeysuckles, Italiane.....	.....	4.00
Evergreen and Variegated.....	.....	10.00
Ipomoea Leonell.....	.....	6.00
Noctiflora.....	.....	4.00
Mexicana.....	.....	8.00
Pandurata.....	.....	8.00
Twice strong 4 in. pots.....	.....	10.00
Wistaria Sinensis, 4 in. pots.....	.....	15.00

Hardy Plants.

Arundo Donax.....	.....	12.00
" Variegata.....	.....	15.00
Aquilegia Glandulosa.....	.....	6.00

Henry A. Dreer, 714 Chestnut St., Philadelphia.

CHRYSAANTHEMUMS, Per 1000.....	.....	\$25.00
\$25.00, many choice varieties.....	.....	\$3.00
GERANIUMS, 10 to 20 splendid sorts.....	.....	3.00
ROSES, all the best standard vars., my selection.....	.....	4.00
VERBENAS, in good varieties.....	.....	2.50
ALYSSUM, dbl. white, nice young plants.....	.....	3.00
CANNAS, in six splendid vars.....	.....	3.00
DOUBLE WHITE FEVERFEW, strong 2 inch, ready to ship.....	.....	3.00
HELIOTROPE, Garfield (best purple).....	.....	3.00
2 1/2 inch.....	.....	3.00
SALVIA, scarlet, white, black & var.....	.....	3.00

Address **N. S. GRIFFITH**
JACKSON CO. INDEPENDENCE, Mo.
 (Independence is well located for shipping, being 5 miles east of Kansas City.)

Mention American Florist.

GREVILLEA ROBUSTA.

Fine, strong plants in 2 1/2 and 3 inch pots ready for 4-inch. \$1.50 per dozen; \$10.00 per 100. These will make fine plants for vases etc.

CHRYSAANTHEMUMS. Many new sorts, from 2 in. pots \$2.50 per 100; \$3.00 per 100. Last mailed free.

COLETTES. Twelve best bedding sorts. Rooted Cuttings \$2.50 per 100.

Samples of above mailed on receipt of stamps.

JOHN D. IMLAY, ZANESVILLE, O.

Violets, Young Plants.

40,000 Young Violet Plants are ready for distribution April 15th at \$5 per 1000.

SCHILLER & MAILANDER,

NILES CENTRE, ILL.

Coreopsis Lanceolata, strong clumps 1 yr. old.....	.....	\$10.00
Coreopsis Lanceolata, 2 1/4 in. pots.....	.....	8.00
Campanula Groesbeckii.....	.....	8.00
" Carpatia, blue and white.....	.....	8.00
Clematis Davidiana, 3 in. pots.....	.....	6.00
Delphinium Formosum, 1 yr. old.....	.....	15.00
Eulalia Japonica Zebrina.....	.....	15.00
" Variegata.....	.....	15.00
" Gracilima.....	.....	15.00
Memecaralis Kwamoo, B. fl.....	.....	10.00
Hardy Pink Snow, clumps.....	.....	6.00
" 2 1/2 in. pots.....	.....	6.00
" 8 choice varieties, 2 1/2 in. pots.....	.....	4.00
Iris Germanica, 12 choice varieties.....	.....	6.00
" Kempterli, 12.....	.....	12.00
" mixed.....	.....	10.00
Pampas Grass, strong, 3 in. pots.....	.....	20.00
" 6 " ".....	.....	25.00
Plumbago Larpetina, clumps.....	.....	15.00
" 6 " ".....	.....	8.00
Tritoma Uvaria Grandiflora, strong clumps.....	.....	10.00

Palms.

This is an excellent time to stock up with young plants for growing on, before the stock is potted up. We offer many thousands of all the leading sorts.

Areca Luteescens, 3 in. pots.....	.....	15.00
" 4 " ".....	.....	50.00
" 5 " ".....	.....	75.00
Caryota Sobleifera.....	.....	10.00
" Urens, fish tail palm, 3 in. pots.....	.....	10.00
Chamoceros Excelsa, 3 in. pots.....	.....	8.00
Cocos Weddelliana, 2 1/2 " ".....	.....	15.00
" 3 " ".....	.....	25.00
Corypha Australis, 2 1/2 " ".....	.....	6.00
" 3 " ".....	.....	15.00
Kentia Belmoreana, 2 1/2 " ".....	.....	15.00
" 3 " ".....	.....	15.00
Latania Borbonica, 2 1/2 " ".....	.....	4.00
" 3 " ".....	.....	8.00
Phoenix Reclinata, 3 " ".....	.....	12.00
" 4 " ".....	.....	25.00
Seaforthia Elegans, 4 " ".....	.....	20.00
Ptychosperma Alexandrina, 2 1/2 in. pots.....	.....	8.00

Ferns.

We offer an immense stock of the following varieties in 2 1/2 in. pots, which if potted up at once will make splendid plants for spring sales:

Adiantum Decursum.....	.....	Cinacium
Latum and Grandiceps.....	.....	Blechnum Occidentale,
Davallia Stricta and Filixina Plumosa, Didy-	.....

* ROOTED * COLEUS CUTTINGS.

Write for prices on larger lots by Express. Samples of 20 sorts mailed free to all who order cuttings strong and healthy, labeled, and well rooted.

ALEX. MCBRIDE, ALPLAUS, NEW YORK
 Mention American Florist.

Rooted Coleus.

GOLDEN BEDDER, VERSCHAFFELTII, HERO, FIREBRAND, J. GOODE, YEDDO, KIRKPATRICK, GLORY OF AUTUMN, CHICAGO BEDDER,

75 cents per 100; \$6.00 per 1000.

CASH WITH ORDER. STRONG ROOTED CUTTINGS.

ALTERNANTHERA AUREA NANA. 40c. per 100; \$3.50 per 1000.

S. B. FIELD, Roselle, N. J.

Mention American Florist.

PANSIES, CARNATIONS.

10,000 Pansies of the Jennings strains now ready. Large flowering, fine plants by mail 60c. 100; by express \$5 per 1000.

Carnation Snow Bird new, the finest white ever, an immense bloomer, large flower, fringed & fragrant, extra strong grower, strong plants \$1.50 doz.; \$12 per 100.

Pansy Seed \$1.00 per packet, large.

E. B. JENNINGS, box 76, Southport, Conn.

CARNATION, VIOLET AND PANSY GROWER.

muchena Truncatula, Lastrea Aristata, Variegata, Lastrea Opaca, Nephrolepis Exaltata, Onychium Japonicum, Polystichum Canense and Stenobolus Cicutarum. \$8.00 per 100, \$50.00 per 1000.

Adiantum Pubescens, Pteris Argentea, Cretica Var., Hestata, Leptophylla, Palmata, Serrulata and Tremula. \$3.00 per 100. \$40.00 per 1000.

Dracena Fragrans, 3 in. pots.....	.....	\$15.00
" 6 " ".....	.....	50.00
" Indivisa, 2 1/2 " ".....	.....	12.00
" 3 " ".....	.....	15.00
" Terminalis, 2 1/2 " ".....	.....	10.00
" 3 " ".....	.....	10.00

Pandanus Utilis, 3 " ".....

Per 100.....

Carnation, Golden Gate.....

 " J. R. Freeman.....

 " W. F. Dreer.....

 " Buttercup.....

Carnations: Anna Webb, Century, Chester, Pride, Dawn, Portia, Grace Wilder, Hine's White, L. Lombard, Pride of Ken-

nett, Sunrise, William Seayre, strong, 2 1/2 in. pots, \$40.00 per 1,000.....

Hydrangea, New Red Branched, strong plants in 4 in. pots.....

20.00

Roses in.

Catherine Mermel, Coles, Countess R. du

Paro, Etrole du Lyon, Louis Richard, Mad. Camille, Md. de Watteville, Mad.

Cusin, Mad. Sclipin Orchet, Mad. Jos. Schwartz, Mad. Margottin, Marie Guillot,

Marie Van Houtte, Sunset, The Bride, Miniature, Perle d'Or, Queen's Scarlet,

White Microphila, Meteor, strong, nearly dormant, 4 in. pots on own roots.....

12.00

Gen. Jacqueminot, Ulrich Branner, La France, Duchess of Albany, Anna de

Diesbach, Camille Bernardin, Duke of Albany, Duke of Edinburgh, Eugene Appert, John Hoppe, Jules Margottin,

Lord Baeu, Magna Charta, Marie Rade, Paul Naud, Prince de Rohan, nearly dormant, 4 in. pots.....

15.00

Duchess of Albany and La France, a fine lot of dormant plants in 2 in. pots.....

8.00

Mrs. John Laing and Mad. Heste, 3 in. pots, 10.00

The April quarterly list will be ready April 1, and will be mailed free to the trade only. Please send your business card for a copy.

10.00

Ten strong Cuttings each, of above ten varieties, by Mail, One Dollar.

Twenty fine sorts, including above, five of each, by Mail, One Dollar.

Write for prices on larger lots by Express. Samples of 20 sorts mailed free to all who order cuttings strong and healthy, labeled, and well rooted.

ALEX. MCBRIDE, ALPLAUS, NEW YORK

Mention American Florist.

SPECIAL OFFER FOR CASH,

TO MAKE ROOM. Each

KENTIA, Bel and Post, 3 ft. high, 4 to 5 char-

acter leaves.....

Bel and Post, 2 1/2 ft. high, 3 to 4 char-

acter leaves.....

Bel and Post, 2 1/2 ft. high, 3 to 4 char-

acter leaves.....

Bel and Post, 2 1/2 ft. high, 3 to 4 char-

acter leaves.....

Bel and Post, 2 1/2 ft. high, 3 to 4 char-

acter leaves.....

Aspidistra variegata, 5 to 8 leaves.....

1.50

Cocos Weddelliana, 2 feet high.....

1.25

All the above grown cool and in fine condition for immediate use.

E. W. WEIMAR, Mt. Vernon, N. Y.

Hot Water Circulation.

My greenhouses lay on a side hill facing south. The grade is about three feet in twenty. I want to build two more houses and the only available space is on the grade above my present establishment. I can grade down so that the level of new greenhouses will be only four feet above that of the old ones. Is it advisable to attempt to heat the new houses from the boiler now in use in my old houses? Boiler carries 1,800 feet of 4-inch pipe and the new houses will require 1,100 feet more. ENQUIRER.

Elm Grove, Wis.

To Drive Ants Away.

I have waited a week to see if any solution to the trouble of "ignominis" was offered. He complained of an invasion of ants in his greenhouse. I know of one, as I have found it sure deliverance and that is tansy leaves—just common green garden tansy. Lay or scatter the leaves about wherever the ants are, and they will depart. Would it not be a good idea to grow a little tansy in greenhouses? HORTENSIA M. BLACK.

Park Ridge, Ill.

Calystegia Pubescens.

The plant advertised in the catalogues this year as *Calystegia pubescens*, if it is the plant I think it is, is the meanest thing to spread that ever was planted. It is known here as the "California rose" and if the ones that plant it in the open ground are not scratching around to get rid of it next spring, I miss my guess. Planted in pots or boxes it makes a very nice plant as it can be trained on some kind of support. It has a very handsome double pink flower about the color of a Hermosa rose. Mrs. E. Kirkville, Mo.

IN THE DIRECTORY change Elmer Reeves, nurseryman, from Waukon, Iowa, to Waverly, Iowa.

PLANTS



WANTED.

1000 Plumbago Capensis.
1000 Rhynchospermum Jasminoides.
1000 Canna Ehemanni.
1000 Clerodendron Balfouri.

In small plants. Send sample and price. Smaller quantities accepted.

A. BLANC & CO.,

PHILADELPHIA, PA.

We will buy all Cactuses offered at a fair price. None but well grown plants wanted. Our stock of 200,000 plants is going off faster than we expected.

APPLE SEEDLINGS.

We now have on the road a large supply of FIRST CLASS APPLE STOCKS suitable for grafting or budding, which will arrive about the latter part of this month.

Price \$2.00 per 100, boxed and freight paid when not less than 5,000 are taken.

FRENCH CRAB SEED.

We expect our last importation to arrive the last of this month. It has been kept moist and will be in excellent condition for Spring planting. No frost necessary to germinate it. Price \$12.00 per bushel.

THOMAS MEEHAN & SON,

March 18th, 1891. GERMANTOWN, PHILA., PA.

HOW TO PROPAGATE:

THE NURSERY BOOK has been prepared with the utmost pains. It embodies the experiences of many experts. The author has been engaged in its preparation for many months and has visited nurseries and men for the particular purpose of acquiring knowledge upon technical points. The whole volume has been read and criticised by Professor B. M. Watson of the Bussey institution, one of the best propagators in this country. All available authorities have been consulted, and particular parts have been submitted to experts. The fruit matter has had the criticism of leading nurserymen, and the head propagator of probably the most important nursery in America has been freely consulted. The orchid matter has been prepared by W. J. Bean of the Kew Royal Gardens. The instructions in the nursery list—which gives the definite methods for each plant—have been read by at least four persons. It is written in a simple, practical style. It contains in compact form about all the knowledge there is on propagation of plants of every kind, hitherto scattered in many books or entirely unwritten. Every florist wants it. About 300 pages; numerous illustrations.

PRICE, in library style, Cloth, wide margins, \$1.00. Pocket style, paper, narrow margins, 50 cents.

THE RURAL PUBLISHING CO., Times Building, New York.

FLOWERING SHRUBS AND VINES.

AN immense stock of the leading varieties of all sizes. Small, for Transplanting, and Larger, for Retailing and Ornamental planting. Send for Trade List, and favor us with a list of wants to price.

THE WM. H. MOON CO., Morrisville, Pa.

Established
Over 50 Years.

Largest and
Most Complete
Stock in the
United States.

Mention this paper.

FRUIT TREES

and ORNAMENTAL

Evergreens, ROSES, Shrubs, Grapes,
Hardy Plants, Pæonies, Small Fruits.

ELLWANGER & BARRY,
Mount Hope Nurseries, ROCHESTER N.Y.

Illustrated
and descriptive
Catalogue, con-
taining important
information for
planters—
Also wholesale list
for the trade,
FREE.

150 Acres.

Large Assortment.

TREES, SHRUBS, VINES,

FRUIT AND ORNAMENTAL.

TRADE LIST ON APPLICATION.

SELOVER & ATWOOD,

GENEVA, N. Y.

FLORAL DESIGNS.

The help for Cut Flower workers.
162 pages, colored plates. Edition
nearly exhausted; speak quick.
Address (with \$3.50 for the book)

J. HORACE McFARLAND,

Box 655, HARRISBURG, PA.

Mention American Florist.

DRACÆNA INDIVISA.

From 2-inch pots, per 100 \$3; per 1000 \$25. From 2½-in.
pots, per 100 \$5; per 1000 \$45. From boxes, once
transplanted, per 100 \$4; per 1000 \$35.

GLOXINIA SEEDLINGS.

From strictly first class *Erecta grandiflora* type—
all tigered and spotted. per 100 \$5; per 1000 \$45.
Ready for delivery April 1, '91.

JOHN BROS.,

Clark's Point, New Bedford, Mass.

Mention American Florist.

MUSHROOM SPAWN
GENUINE MILLTRACK

10 lbs 25 lbs 50 lbs 100 lbs
\$1.25 \$2.75 \$5.00 \$9.00

JOHN GARDNER & CO.
PHILADELPHIA, PA.

10,000 Plants of the Leading

STRAWBERRY * CANDY.

As good as pot-grown, for sale. Price on application.

C. K. HOFFMEYER, Florist, Allegheny City, Pa.

Mention American Florist.

"STANDARD" FLOWER POTS

Wishing to reduce our large stock of "Standard" Flower Pots at once so as to make room for extensive improvements and alterations, we offer extraordinary **Cut Prices** until May 25th, 1891. We secure lowest freight rates, deliver free on board and make no charge for packages. These pots are all "Standard" sizes and no old stock. Special quotations given to buyers of large quantities. Do not let long distance stand in the way of ordering, as pots can be shipped safely all over the country.

When writing us please mention quantity and sizes desired that we may quote you lowest prices. For prices address

THE WHILLDIN POTTERY CO.,

713 and 715 Wharton Street,

PHILADELPHIA, PA.



ALL SIZES OF SINGLE AND DOUBLE THICK

GLASS FOR GREENHOUSES

— ALL GLAZIERS' SUPPLIES. —

Write for Latest prices.
Mention American Florist.

IF YOU RETAIL FLOWERS...
... YOU NEED A SET OF...

LONG'S FLORAL PHOTOGRAPHS.

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3.....	1,450	250 "
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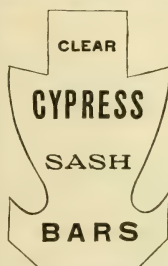
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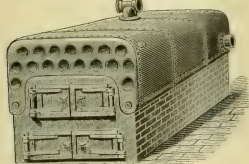
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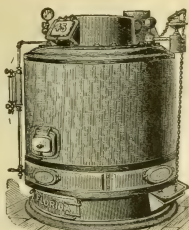
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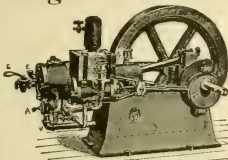
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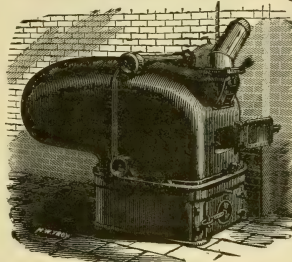
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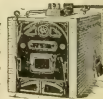
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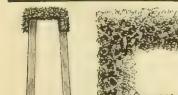
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Vol. VI. CHICAGO AND NEW YORK, APRIL 2, 1891. No. 148.

THE AMERICAN FLORIST

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THE AMERICAN FLORIST COMPANY.

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American Chrysanthemum Society.

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The Carnation.

[Read before the Cincinnati Florist's Society by R. Wittersladter.]

I firmly believe that the carnation is on the eve of a glorious future, and it will be our duty to promote the popularity that she is now being favored with by giving her better treatment and bringing her before the public in the most perfect condition. I think the carnation will run the race a closer race than the chrysanthemum, for she possesses a grace the chrysanthemum can never lay claim to. With the advent of newer and improved varieties, I hope to see Mr. Thorpe's prophecy fulfilled in regard to his ideal 4-inch flowers.

The interest which is being taken in the carnation by the public was never more evident than at our late chrysanthemum show when the visitors lingered with admiring glances at the different vases of the carnation and could not resist the temptation of inhaling their fragrance. This was quite a contrast to the chrysanthemum tables with their vases of ill smelling flowers. When the chrysanthemums first came into popular favor, quite a number of growers in the east were crying down the evil as they thought because it was not a paying crop. Will this be the case with the carnation? I think not; for she will have friends without number to see her put forward and she will repay us by increased profits, as was the case with the chrysanthemums.

The carnation up to within a few years has been a secondary crop with most of us, and treating her in most cases to the poorest house room we had. But now things are changing as the demand for fancy blooms is proving, and the grower will find it to his interest to give her as good a house as the rose. A light dry house is the carnation's delight and will repay the grower if he will give her the same attention the rose is receiving today. We all know from experience that whatever we grow to perfection, success has only been attained by studying the wants and nature of the plant and strictly giving the attention which it requires. Such I found in the case of the carnation. When I first began the growing of the carnation, I threw away as many cuttings as I rooted, simply because I did not know or study its needs. I tried to root in a temperature of over 60° and using almost any kind of

wood; now my practice is entirely the opposite. My propagating bed is over a brick flue and on the west side; the house is heated by a line of pipes under the bench of an adjoining house on the east, the furnace only being used in very severe weather, the temperature of the house being kept between 45° and 50°. Here they root within four to six weeks, according to variety; the Buttercup will always take a week to ten days longer, being one of the most stubborn to root. There are always a number of cuttings in taking out a batch to be put back for another trial. In selecting my cuttings I prefer those on the flowering stem from the flower down to within the last two or three shoots, which I consider too valuable for cuttings, as they make the next crop of flowers. After placing the cuttings in the sand I press the sand firmly about it, and water heavily, and never let the sand show a lighter color, from that time until they are rooted. With this treatment I never have to throw away any more cuttings.

After they are rooted I put them in 2-inch pots and plunge them in cold frames and harden them. I think this practice very beneficial for clay soil. In lifting the plants in the fall, in very sandy soils I don't think there is anything gained in potting. I generally plant in the open ground as soon as it is dry enough to work, or about the latter part of April. I plant in beds of five rows, sixteen inches apart, and ten inches apart in the rows, allowing twenty-four inches between the beds. Should there be danger of the ground becoming too hard, before the weeds appear I begin cultivating, using the Planet Jr. wheel hoe which I consider indispensable in working my out door crops. Of course where ground is no object the easier way would be to plant further apart and use the horse cultivator. I use the wheel hoe as often as necessary to keep down the weeds and the soil in a mellow condition and in the dry summer months, as often as we have a rain no matter how light it be, for this helps to retain the moisture.

To get compact plants, topping must be attended to during the growing season every ten or fourteen days. The last topping to be done depends on the time the blooms are wanted and according to variety. If blooms are wanted for late fall and winter months, of such varieties as Grace Wilder, Wm. Swayne, Prest. DeGraw, Silver Spray and Tidal Wave, the last topping should be done between August 15 and September 1; that will bring them in about the first part of November; and such varieties as Hinze's White, Sunrise, Portia and E. G. Hill about August 1, and Buttercup between July 15 and August 1. Carnations should always be housed before frost, generally beginning about September 20, or sooner if the weather is cool enough.

I shade the house if the glass is clear by going over it with a hand brush and a bucket of muddy water. This is very easily cleaned off by the rain and it is very desirable should the rain be followed by a day or two of cloudy weather. Take off the shading as soon as the plants can take the direct rays of the sun without wilting. I never lift more than a hundred plants at a time and clean off all the dead leaves before planting and again after the plants are established. Keep them as clean as you would your roses.

I plant the back row of the bench the full length of the house first, then stake and tie with white twine, every plant, no matter if they have flowering shoots or not; the plant should never be allowed to become wilted as it can be easily prevented by throwing water on the paths and under the benches, and frequent syringing with the hose. Keep on the ventilation night and day until there is danger of the thermometer falling below 40°; then the house should be closed down for the night. Never let the thermometer rise above 60° before the ventilation is put on in the morning; this should be practiced until severe weather sets in.

No matter how badly flowers are wanted never force your plants at this time of the year, for they are in no condition to be forced. Our main object is to get them as strong as possible before the dull weather sets in. At this period watering should be carefully done. Never water overhead or syringe them, as the water settles in the axils and can never be evaporated in the brightest day at that time of the year. Should this occur very often you will notice that the stem and leaf at that point will become a reddish brown in color, after which the carnation dies. Buttercups show this sooner than any other variety.

Watering is done in the winter months only when the top soil shows a decided light color, and only enough is given to penetrate two-thirds the depth, unless be the bench over the flue, and then just enough to show through. Your success largely depends upon the judgment you use in watering during the winter months. In this respect you cannot be too careful especially on the bench over the flue. Your soil should be in condition to work without balling within four or five days, if not, then they have received a little too much water. The night temperature is kept at 50° and very particular if it should fall to 42° to 45° by morning. But on the night of the first and second day the plants are watered. I am most particular at keeping the temperature at 50° all night. The day temperature is kept at 50° and 55° on days that fires are needed and 60° to 70° on bright days, and ventilation given for a couple of hours at noon or sooner, should the thermometer run higher than 70°.

The demand for long stem carnations is so great now that we can not use at the most about one-fourth short stems to the whole amount. There is no difficulty in cutting Grace Wilder, Silver Spray and Lamborn without sacrificing many buds. The contrary is the case with Wm. Swaney, Tidal Wave and Buttercup, consequently these will have to be cut in sprays, cutting the first flowers short, which will leave two to four blooms to the spray, according to the strength of the shoot.

To get good size flowers in these sprays, I prefer to have plants with from five to eight strong flowering shoots when lifted in the fall; my choice of Buttercup is from four to six shoots.

The greatest evil that exists among us today is crowding the plants on our benches. The sooner we do away with this the better, for the carnation needs as much air to circulate around it as most anything else.



Cultural Notes.

Peristeria elata is a terrestrial orchid from Panama; the native name is *El Spirito Santo*—the Holy Ghost Plant. The center of the flower is in the form of a dove, from which the plant also gets the name "dove flower." It is very successfully grown and flowered at Whitinsville, Mass., by Mr. Geo. McWilliam, gardener to Mrs. J. W. Lasell. At the convention in Boston last August, he exhibited two plants; one in a 12-inch pot had 12 spikes, 34 flowers, and buds to open on the longest spike; and a smaller plant had 8 spikes all very well flowered. The flowers are very sweet-scented. To grow it successfully a stove temperature is required. Mr. McW. does not dry off his plants thoroughly as some growers do. In winter weak liquid manure water is given about twice each week, which keeps the bulbs plump, and gives them strength to send up their flower stems in the summer.

Cyclopogon cristata is a very useful orchid. From two plants in 8-inch pots purchased in 1885 Mr. McWilliam has increased the stock to 26 10-inch pans. These now produce from 30 to 55 spikes, some bearing six flowers, the average being five to the spike. Where fine white flowers are required, these will fill the bill perfectly. When in growth a temperature of 55° is given; in summer plenty of ventilation is given both side and top of the house, and the plants watered with weak manure water; when finished growth, more light and some sun to ripen off the bulbs are given, with only enough water to keep the bulbs from shriveling. The cyclopogon should be more extensively grown in every orchid collection, the pure white of the flower, with its rich yellow stripes in the throat, make it fit for and gives a rich finish to any floral arrangement.

W. S.

At Toronto Next August.

Opinions seem to be somewhat divided here with regard to what has been said and written about the entertainment part of the convention. Some are disposed to advocate less jollification than has been the rule in the past, while others think that the pleasure part of the annual meeting is very important, and consider as it is an acknowledged fact that florists are a hard-working stay-at-home class of men and to such an annual relaxation from business is to be encouraged.

The trouble seems to be that each city where the society has met has vied with the preceding one in showing what they could do when they tried. If this is to be the rule, Toronto is in a rather less favorable position than any place where the society has met before. Coming as it does after Boston, it is to be feared the rule will be broken, badly broken, as we have neither the wealth nor experience to compete with the Hub of Creation.

However I do not think we will be guided by Mr. Mendenhall's advice and give our visitors a diet of porridge, although Mr. M. can have porridge if he wishes it, and we will not press him to indulge in anything stronger than tea and city water. But if Mr. M. means that the entertainment this year must of necessity be meagre, all I can say is he don't know Canada. We "sturdy Canadians" do not live on porridge, corn cake and maple syrup; it might perhaps be better for some of us if we came a little nearer that diet.

But joking aside I think the Toronto Club will try to be guided by what is thought best for the welfare of the society and endeavor to curb any ambitious desire to eclipse Boston, and on the other hand not allow them to go home and say Toronto is the meanest place they ever struck. For my part I intend advocating giving our attention to the ladies and leaving the male persuasion to care for themselves, which they are generally quite able to do.

Would it not be well to have a little discussion on this subject in your paper, if you are willing?
Toronto, Ont.
W. J. LAING.

[We are quite willing to give space to a discussion of the subject.—Ed.]

New York Floral Notes.

Easter this year has come so early that there are but few novelties in the flower market. Genistas are quite plentiful and are well filled with flowers; these have never been grown of such a fine size before; they are the one yellow flower of which we have an abundance. *Acacia pubescens* is quite behind hand this season, the little we have seen of it is not showy at all, and it is very high priced as usual. The *Acacia paradoxa* is in market quite plentifully, but this is not a beautiful flower. The bulbous flower, *Star of Bethlehem*, is in market, and pretty magnolia bushes are brought in; these have eleven and twelve flowers on them. The only real novelty of the season is moss roses and baskets of sweet clover, which comes in white and pink, and is brought in by a Jersey grower for a few of our florists who can afford to pay for it.

The clover basket is quite the rage, it is small and flaring, and is filled with white and pink clover, which has a satin ribbon about it with a bow on the bottom of the basket. Mr. J. D. Boden of 120 Broadway, lately made a design six feet high for Mr. Enos's funeral, which was elaborate and decidedly new; on the top portion of it was a wreath of La France roses and lily of the valley; the space all the way down the shaft was covered with *Asparagus tenuissimus*, which was very handsomely put on; then there was an anchor about 24 inches composed of violets. The base was made resting on white lilies; a satin bow of white ribbon was tied on the wreath at the top of this piece, the ends of which extended to the bottom of the design. This piece was a very beautiful one.

The Klunder Company made an especially beautiful Easter decoration at Grace Church, where the white trimmings and stone work of the altar looked particularly fine trimmed with the lilies. A crown of these was placed on the altar, which had a garland of Jacqueminot roses thrown over it, and a group of genistas on each side of this. A cross 9 feet in height was placed on the communion table. This company also arranged the flowers at St. Bartholomew's Church, where there was an elaborate cross of pink and white roses.



VARIOUS ORCHIDS

1. *Dendrobium Stratiotes*. 2. *Ionopsis paniculata* var. *maxima*. 3. *Restrepia Antennifera*. 4. *Miltonia Bleuana*. 5. *Lycaste Skinnerii* var. *alba*.
 6. *Aganisia Cyanea*. 7. *Aganisia Tricolor*. 8. *Miltonia Spectabilis*. 9. *Sianhopea Ruckeri*. 10. *Aeranthus Grandiflora*.
 11. *Spathoglottis Augustorum*. 12. *Zygopetalum Gibezei*.

Mr. William Burns made an excellent display of plants and flowers in the conservatory which adjoins his store, and which opens from it with folding doors. The genistas and palms were placed high up in the conservatory at the back of the other flowers, and there were

beautiful azaleas among the many plants here shown.

Thomas Gordon has succeeded his brother, Fred Gordon, at No. 71 Broadway. He has had a fine stock of Easter plants, and has made up many pretty designs for sale. The bandeaux of flowers

now seems to be the fashionable trimming for the neck of a bridal dress; this makes a beautiful trimming if done with lilies of the valley, and it will probably be very much worn during the Easter weddings; it can also be put on with daisies, which is always a favorite flower in spring.

Mr. McConnell has had a very fine stock of Easter plants and pretty designs in baskets. He decorated the Fourth Street Methodist Church with a large cross of flowers over which a wreath of roses was placed. The Rev. Dr. Eaton's Church was also trimmed with lilies, genistas and palms. McConnell's store was elaborately trimmed on the outside with beautiful genistas, which made the whole block fragrant.

Thorley took a store in 28th street for his Easter display of plants, as his own store was of insufficient size to hold them all. Bogart also had an additional store located quite near his regular sales-room. Other florists were obliged to lure extra stores over Easter to display their stocks of plants. F. A. BENSON.

Washington, D. C.

Our Easter floral trade in Washington is greatly stimulated by the constantly improved displays some of our more enterprising florists annually make during the last week in Lent. Fisher, Freeman, Garden and Hale, Gude, Studer, Strauss and others all make a fine display, and evidently are well repaid for their trouble, but the Smalls this year have excelled all their previous efforts.

In their large double show window, deepened by an additional platform extending back, they depict the familiar egg rolling scene which for years has been a special feature of Washington child-sport and takes place every Easter Monday in the well turfed grounds south of the Executive Mansion, where the gently sloping mounds are peculiarly adapted for the purpose. In the place of turf lycopodium in its various shades in shallow pots on sand has been most artistically employed by the Smalls, the effect of gently sloping mounds being rendered strikingly natural. The walks are of selected gravel and various dwarf varieties of ferns, palms, azaleas and a few clusters of Rothschilds were made to serve an excellent purpose as evergreens and flowering shrubbery, with tall single specimens of palms in the background to represent trees. Prettily colored little trees lay around and miniature nurses and children in gay attire are earnestly engaged in sport, while from afar peer forth two astonished white rabbits. The whole scene is as it were encased by arched walls of trailing plumosa, while overhead from a gothic dome lined with the berried wild southern smilax hung pendent an immense floral egg, studded with precious gems from which tall electricity colored beautiful rays of light. A mirror on one of the walls imbedded in maiden-hair ferns gave depth and effect to this fairy scene from real life.

Along the center of the spacious store room on a low stand some thirty feet in length are banked from both sides potted cinerarias and hydrangeas, cordon upon cordon of superb Harrisiiis, from the ridge emerging in the center a magnificent C. australis with at either end equally perfect specimens of C. revoluta. At the base boxes densely packed with growing hyacinths of every shade of purple and blue, red and white alternating with variegated tulips, narcissus and jonquils constituted a brilliant and effective border.

The tall mirror in the establishment was encased in a frame of potted Spirea japonica laid on slanting shelves with gracefully inserted tufts of ferns, a huge specimen overhanging the top in luxuriant plentiful rays of light. At the side stood a fine large L. auratum in bloom and to match on the opposite side a tall

Arcen lutescens, while a marvelously perfect roscate azalea covered the entire front, the reflection of its bloom adding greatly to the general effect.

The rose bank was another attractive feature of this display. It consisted of one of the long tiled counters being tiered to the walk as a border a continuous line of the exquisite broad leaved fern was used; to impart variety two large circular baskets, one filled with lilies of the valley, the other with purple violets, were set midway in the back of this border; all else was made up of potted maidenhairs, Spirea japonica, and in hidden vases great clusters of the choicest roses, specimens which any florist show would command prizes were Magna Charta Beauty, Albany, Watteville, La France, Neroli Bride, Puritan, Jacq. Mermet, Ulrich Brunner, Rothschild and others, a veritable embankment of the most superb specimens of roses. A floral representation of the east front of the U. S. Capitol served as a frieze and background to this rare bed of roses.

A very artistic feature, and perhaps the most perfect, consisted in covering on slanting shelving one of the walls completely with Adiantum gracillimum, cuneatum, decorum and other varieties of maidenhair ferns, inserting an oval mirror in the center, the bordering or frame work of which was an exquisite piece of artistic work. Below the mirror on a low counter was a display of orchids of rare beauty—a dozen or more vases filled with cattleyas, more especially of aurea and Warneri, and one large hanging basket filled with odontoglossums, including the highly variegated Wilckema album, Harryannum and Grandiflorum. At either end of the counter stood large round baskets, the one filled with lilies of the valley, daisies, etc., the other with large yellow daisies, mammoth sprays of mignonette, etc.

Two other projecting windows on the north front were banked, the one with assorted hydrangeas of unusual size of bloom, flanked by deep purple cinerarias and a background of palms; the other window had as center piece a well proportioned ivy cross twelve feet high, a growing vine twining around it and a white floral tablet diagonally across the front, studded with precious gems which at night emit electric rays. An assorted foreground of flowering plants with palms and crotons formed a background.

In the rear of the storeroom rises a dense bank of growing tulips, narcissus, jonquils, massed in closely packed boxes. Litanias, A. lutescens and genistas occupied every available space.

All this show in the heart of the city, free to all for a week or more, no wonder the place is crowded from early morn until late at night. Such a display is not only highly educational to a community, but also has a most wholesome effect upon trade in general, and while it benefits the enterprising firm conceiving it at the same time it stimulates business all along the line for their less fortunately situated professional brethren. Z.

The Winter in France.

The winter of 1890-91 has been a hard one for all Europe, and in France it will be long remembered as one of the most destructive in the annals of horticulture. The harm has been caused not so much by the severity of the cold as by its sudden and repeated attacks, and the entire lack of snow during most of the season.

The winter of 1880 was more severe as to actual cold and of longer duration,

but did far less damage. Last summer was cool and rainy and the autumn very late so that in November roses were still blooming in the open air as far north as Paris; toward the end of the month, the thermometer fell in 48 hours nearly and in some places quite to zero F. Work as they might, few growers could shelter and protect more than a very small proportion of their stock and the losses were immense, most plants being in full vegetation. This sudden lowering of temperature was repeated twice, each thaw being followed by a worse "cold snap" than its predecessor. It will be some months yet before the damage can be estimated, but it is certain that there has been sad havoc made among the roses, a large proportion of the soft-wooded ones, teas, Noisettes and Bengal being entirely lost.

Many private gardens have been completely desolated. Rhododendrons are looking very badly, laurels, ornamental Japanese shrubs, photinias, indeed most ornamental plants have suffered. In the park at Versailles, I noticed a hedge row in which nearly half the plants were killed. Young peaches and almonds have suffered, while most other fruit trees have escaped.

In the north, plane trees, chestnuts and most nut bearing trees have sustained considerable damage, the bark and trunks bursting from top to bottom during the severe frosts. The market gardeners lost terribly, and salads were almost beyond price, even at the great Halles Centrales; there was almost a famine of potatoes and carrots, which sold at immense prices; cabbages, leeks, spinach, turnips and beets, indeed all vegetables were insufficiently protected and are almost a total loss.

The following estimate of the losses of the growers for the Paris flower markets only, was furnished by the secretary of the society, and we translate from the *Revue Horticole*: "The four hundred regular growers for the Paris open air markets may be divided into 3 classes: 1st, rose growers; 2nd, those who sell plants from the open ground; 3rd, those who sell pot plants or their flowers."

"The rose-growers, about 50 in number, have lost most, and it will take three or four years to renew their stock in good condition as before. Their losses are estimated at \$200,000.

"The second class contains about 150 growers, all of whose plants were destroyed. Forty of these estimate their loss at \$80,000.

"The last class, about 200 growers of pot plants, will sustain a loss of \$10,000 to \$180,000, and a great many of them will be forced to give up their business, having lost their stock plants as well as young stock.

"Beside these 400, there are estimated to be about 6,000 florists and nurserymen in the immediate vicinity of Paris, to many of whom the winter has been truly disastrous." F. L. V.

Baltimore.

At the last meeting of the Gardeners' Club Mr. Seidewitz read a paper on the profits of rose growing. He showed that the margin is very small, even under favorable circumstances, and that there is nothing to justify the investment of capital in rose growing as a business. One gentleman in our neighborhood who was earning a salary of \$2,000 a year and who thought there was a mine in rose growing has returned to his former calling well satisfied there is nothing in it. Fifty years ago and \$8,000 tell the tale.

Plans were matured for the carrying out of our spring show and our secretary



VARIOUS ORCHIDS.

1. *Filumna Nobilis*. 2. *Trichopilia Suavis* var. *alba*. 3. *Epidendrum Nemorale*. 4. *Leptotes Bicolor*. 5. *Coelogyne Pandurata*.
 6. *Miltonia Spectabilis* var. *Moreliana*. 7. *Zygopetalum Rostratum*. 8. *Catasetum Disco'or*. 9. *Catasetum Bungeorothi*.

instructed to invite our brethren from Washington to come over with the request that they select three of their number to act as judges.

Our Cut Flower Exchange is working admirably under the auspices of the club. We were unfortunate at the start

in getting a dishonest manager, but since we secured the present incumbent every one is satisfied. Nearly all the growers and dealers are in it and it has become the recognized channel of trade in our city.

One firm of commission men in Philadelphia has done us great injury by send-

ing large weekly consignments of cut roses here. They send a man with them who on reaching Baltimore hires a wagon and makes the round of the stores. They are sent on to be sold (and the storekeepers are aware of it) on the principle that half a loaf is better than no loaf,

and if the writer knows or is conversant with the cost of production he questions if there is that same in it, especially when we take into consideration the railway fare, a man's wages and wagon hire. We don't want to be understood as hindering any of our brethren in sister cities from working off any of their surplus stock in ours, what we wish is that they consign their stock to the recognized channel of trade, viz., the Florists' Exchange, No. 120 N. Liberty street. Our manager, J. J. Perry, has reason to believe he could handle the produce that is flooding our stores once a week, and make equally if not better returns to the consignors than they are getting under the present system and so regulate matters that a living price can be had for all. I only wish our brethren in other cities were conversant with the benefits to be derived from an exchange as it exists here. I went into it reluctantly at the beginning and soon pulled out, having detected dishonesty. Now I am thoroughly of the opinion it is the proper way to conduct our business; the supply and demand can be nicely regulated by an adroit manager and living prices maintained. It is a boon to us; the only flaw I have seen is the one mentioned, and I for one regret to see members of the craft in other cities being so badly hurt, as they must of necessity be according to the prices at which they are selling the produce sent to Baltimore. If it is over-production I suppose it will rectify itself, if it is capital that is doing the mischief, that also will in time be the same. The trouble is the innocent often suffer with the guilty. Most other callings are passing through a crisis and we ought not to expect ours to be an exception to the rule. Certain it is we are passing through something when roses are consigned in large quantities to our city and are being sold at the purchaser's own price, which is half price, and from the rich cities of the north.

JOHN DONN.

London.

The new bouquet called the "Shower," was carried by several of the debutantes at the Queen's last drawing-room. It is an elaborate affair, of the most graceful and airy lightness possible, and its dainty sprays fall to a length of 12 to 20 inches. One was yellow, entirely of *Narcissus ovaliflorus* combined with the rich brown foliage of mahonia and ivy leaves, lightened by tiny bunches of the natural *Agrostis pulchella*, which was almost as effective as *Asparagus tenuissimus* in a light bouquet. The *narcissus* were arranged into a semi-round bouquet, falling into a long full spray, behind and below which hung on narrow yellow ribbons several small sprays of *narcissus* and *agrostis*. A bow of yellow ribbon at the hand completed a very artistic effect. Another of cattleyas and *odontoglossums* with maidenhair ferns and lavender ribbons was very beautiful.

F. L. V.

Scarlet Easter Flowers—Cannas.

What have you got? Geraniums are hardly "quality," carnations or nasturtiums are out of the question except as cut flowers; *Begonia coccinea* and *B. semperflorens* var. *gigantea rosea* could be used to good advantage, still they are not enough. Now, just imagine how a group of Star of 1891, Madame Crozy or T. S. Ware cannas in full foliage and full bloom would look assorted with the rich green palms or snowy lilies. Azaleas are gay but stiff; about the

cannas in pots there is no stiffness and they have fine foliage and brilliant gay blossoms. And there is this also in their favor. In the case of lilies, azaleas, hydrangeas, etc., as soon as Easter is past their season of profit is past also, but this is not the case with our finer cannas; serving at Easter does not materially injure the plants, and we take them back and divide them and grow them on with all our might for they are gilt edged stock to handle. Happy indeed on this score is the florist this spring who has a good stock of these three cannas. For years to come you can not overstock the market with this quality of material, for remember, they are plants that appeal to the million more than to the millionaire. It costs very little to grow them in summer and you can winter them under the benches, no crop is easier to handle.

W. F.

Coming Exhibitions.

March 31-April 3, Boston.—Spring exhibition Mass. Hort. Society.

April 7-11, New York.—Spring exhibition New York Florists' Club.

April 14, Los Angeles, Cal.—Rose show Southern California Floral Society.

April 16-17, Syracuse, N. Y.—Spring exhibition Central New York Hort. Society.

April 22-23, Baltimore.—Spring show Gardeners' Club of Baltimore.

May 6-8, San Francisco.—Annual flower show California State Floral Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club.

Returns Per Square Foot.

In determining the comparative profitability of the various roses and other flowers some growers have adopted a system which gives them the cash returns per square foot. This has several advantages as it gets to the point at once and shows all such matters as productiveness at the best selling season, quality of bloom, etc.

A large and successful eastern grower

has favored us with a copy of his record for one season and we print it below.

In his accompanying note our correspondent says: "It is necessary to state that the Bon Silènes, Gontiers and Mermetts were thrown out about two months earlier than the other kinds in order to make room for plants. About 5 per cent of my stock was sold at retail and is not included in this list, but would I judge cover all varieties. The measurements cover the entire ground space of the houses, paths as well as benches. I paid no commission for selling, sales being by contract or on orders direct to the place. I have not carried out the fraction in calculating the receipts per square foot."

	Sq. ft. of space.	Total Receipts.	Receipts, per sq. ft.
Perle and Sunset.....	2,500	\$1,582.58	\$.63
Bon Silène.....	700	276.80	.39
Niphetos.....	450	368.03	.81
Bennetts.....	1,100	732.54	.66
La France.....	1,540	1,063.14	.69
Bride & Mermet, 2,000		1,148.06	.57
Am. Beauty.....	1,440	1,003.05	.69
Gontier.....	500	215.49	.53
Mme. G. Luizet.....	1,800	949.30	.52
Bar. Rothschild.....	600	286.15	.47
Heliotrope.....	500	158.38	.30
Smilax.....	6,500	2,641.45	.40
Asparagus ten.....	1,500	695.37	.46

Begonia Clementinae.

We present herewith a beautiful illustration of this begonia which bids fair to be one of our most popular ornamental leaved sorts. The leaves are olive green tinged with reddish brown and blotched with silver. It is so easily grown that it will no doubt be very useful as a pot plant.

Leaves of Advice From a Limb of the Law.

(For Young Florists)

XXV.

A BOILER TRANSACTION.

Pray calm yourself, you are as red as a paeony. You are fairly boiling over. Boiling over? Yes, that expresses it exactly. Oh, I see, trouble with that boiler of yours. Well, when you have let off sufficient steam to render it safe for me to sit down and talk it over with you I'll do so.

But before you say a single word let me remind you of a warning I gave you at the time. Don't want to hear it? Of course not, no man likes to be reminded of his mistakes, but I shall not be silenced. I am either your legal adviser or I am not. When you purchased that boiler and told me that your contract with the seller was that he should send a man over to your place to set the boiler I said to you: Don't fail to have a memorandum from him containing specifications of what work is to be done and how it is to be done, quality of brick, number of layers, quality of cement, and also a guaranty that the boiler will do certain service. You pooh poohed the idea, said it was a very simple thing and that the man had assured you it would work satisfactorily.

Well, you went ahead and now you see the consequences. You are at loggerheads with him. You have been obliged to call in another man to do the work or wait again before the boiler would work satisfactorily. Now comes the afterclap. The first man renders a bill for the full amount due him just as if his work had been performed properly.

You ask me whether he has a legal claim for the full amount. It all depends



BEGONIA CLEMENTINÆ

upon the contract you had with him. I assume that he guaranteed that he would set the boiler properly so as to make it answer the purposes for which it was bought. In that case you have a right to deduct from his bill all the extra expense to which he put you, and if you could prove that your stock suffered from

his failure to set the boiler as agreed you would have a claim for damages against him for all loss directly occurring from his neglect or lack of skill.

This is a plain proposition, but in the event of a law suit it would be necessary for you to have expert testimony to show that he failed to do his work in a proper

and skillful manner. Such a law suit might easily call for the expenditure of more money than the boiler is worth. Therefore I advise arbitration if possible. Let both of you agree upon some one expert to examine the matter and report what deduction if any should be made. Or possibly you and he by talking the

whole transaction over might be able to reach a settlement yourselves without the interference of any outside party.

"I'm a lawyer, but an honest one. Don't laugh, it is not a joke. I am not trying to be funny."

Now I come to another phase of this question. If it be that after the boiler was set in accordance with the contract with the seller, then for some reason over which he had no control it would not work—say because there was not draught enough, or because from the peculiar position of your houses, then in that case you would be obliged to make all the changes at your own expense.

You see this puts a different aspect on the matter. I may sell you a good stove, but I don't guaranty that your chimney has a strong enough draught to make it draw. I may sell you some patented device, but I don't guaranty that it will work well under all circumstances, but only under given circumstances.

So if the boiler man said, "I'll set that boiler so and so," and you acceded, but upon the trial being made you couldn't get the result you sought for, why you'd have no right to fall back upon him and say: "I find your boiler doesn't work well, you must set it over again." You perceive it all depends upon whether there was any breach of contract upon the boiler man's parts. If a man changes his mind that is his own business and he must pay for it.

Now it may be that you made a "loose contract" with this boiler man. What I mean? Well, I'll explain. Suppose you contracted with him that he should set the boiler properly and no more. In that case it would be for experts to testify whether he kept within his contract or not. "Properly" might mean one thing or it might mean another. It might be properly set when it only yielded one half of the steam you needed.

Loose contracts are often worse than none. In no transaction should a man be more careful than in making a contract with a mechanic. Have everything set down in black and white, everything specified. A mechanic has an advantage over you. He may lien your premises for an unpaid account. A mechanic's lien may be foreclosed; it means a legal contest. It is vexatious.

Therefore, in case you can effect a settlement of this matter you must not pay the bill until you first examine the record to see whether the boiler man has liened your premises or not. In case he has you must secure a satisfaction of the lien before you settle with him.

Anyway, this transaction should teach you a lesson. While it may be true that disputes do arise even when there is a written contract, yet they are not so apt to occur, and if they do arise you stand so much better when the matter comes up in court.

The law loves a careful business man—one who keeps his accounts in perfect order and who never allows himself to be caught napping by a dishonest or subtle adversary.

I once knew a man who kept a daily journal for twenty years before he gained a single material advantage by so doing, but at last his reward came. By reference to an entry in the journal it was possible for him to prove a will made by his uncle to be a forged one, and thus by a single stroke of a pen he earned a cool \$20,000, for with the will out of the way he was the sole heir to his uncle's estate.

I'm glad to see that your high color has gone down. You are now in a better condition to think the boiler matter over.

Don't force a fight unless you are quite sure you are right.

UNCLE BLACKSTONE.

A Visit to James Dean's, Bay Ridge, L. I.

Every florist who has read Mr. Jas. Dean's most practical essay on the "Importance of the Easter Plant Trade and How to Prepare for it" will naturally think that Mr. Dean's place is well worthy of a visit at this season of the year, and so Mr. J. N. May and Mr. Robert Kift and the writer found it to be.

Lilium Harrisii occupied a great deal of space and they were in excellent condition. Mr. Dean pointed out the evil effects in undue forcing of these standard Easter plants. He had occasion to prepare some plants that were to be used in decoration a few weeks before Easter, and the plants in order to get them into bloom in time were subjected to a temperature of 75° at night; the result was the plants were tall and thin and the flowers lacked substance. Not so with his regular Easter stock. They had been brought on in a night temperature of 60° or a little more, and the difference was quite marked. The plants were ample foliage of a deep rich green and the flowers were large and of great texture. The question was raised about the superiority of *longiflorum*, as having naturally more substance than its close relative, but Mr. Dean was quite confident that the older variety could not be any better in that respect than those before us, and we certainly agreed with him.

The azalea is accorded a very prominent position here, and they were a grand lot; a pair was pointed out to us that had been sold to one of the leading New York florists. The price per pair was \$100, and every beautiful pair they were, fine in bud and bloom and symmetrical in shape.

We also saw the new one, about which we have heard so much, and not one word more in its praise has been said than it deserves. It is certainly a remarkable plant, one that every person who has a greenhouse will want at least one. Its name is *Vervaneana*. Mr. Dean liked it so well when he had it in bloom last year that he went over to Europe last summer and bought up all the plants of it that he could find. This is sufficient evidence of its value, for Mr. Dean is one of the most conservative men in the business. The flower is very large and double, it measures six inches over, in color it is variegated, delicate and bright pink with a crimson blotch in the center. We congratulate Mr. Dean on being able to control upwards of two thousand plants in various sizes of this notable greenhouse plant.

The *cytisus* or *genistas* are another prominent feature here. Plants from ten feet high to the tiny plants in small pots were here in large numbers, especially the long and slender batch in bench pots were a very useful size, as they were a nice shape and well flowered. But what proved to be very interesting were a lot of seedlings which the proprietor has undertaken to raise with the end in view of improving this useful class of decorative plants. Out of some hundred, which were in bud and bloom, there were no two alike, some were remarkable for the larger racemes, others for the individual florets being of larger size, while again some plants assumed a graceful weeping habit. One in particular struck us all as being of rare merit, and we do not hesitate to say it will be heard of in the not far distant

future. A valuable quality in the *genista* is the facility with which it may be propagated, so that, if this plant retains its valuable peculiarity, we will not have to wait very long before it is put upon the market, which will be welcome news to all who are interested in spring flowering decorative plants.

There were other things of interest to be seen here; ferns in great variety and in good shape, also the leading species of palms for florists' use were in various sizes and in excellent health. A lot of *Cocos Weddelliana* were the best I had ever seen. They were growing in 3-inch pots, a foot to eighteen inches high, and of a healthy dark green color. A lot of *Latania borbonica* were pronounced the finest batch in or around either New York or Philadelphia. I cannot conclude without saying that I was more than pleased with my visit.

EDWIN LONSDALE.

Not So Criminal.

Mention is made in an exchange of the "criminal waste in spending thousands of dollars for the flowers that decorated the rooms at a recent Philadelphia wedding." It is strange that some people conceal their ideas of wastefulness in penitences for objects that cannot be eaten on such occasions. We hear very few complaints of the wastefulness in spreading salads, creams, terrapin, croquettes and pates before people who have all breakfasted well, and all expect to have their dinners when they go home. But the flower trade, that employs hundreds of estimable and enterprising men and women, is held to be the one extravagance because its efforts and the effects of its skill are almost as fleeting as the hues of an exquisite sunset. All the same, money spent in floral arrangements and decorations is well spent, if the spenders can afford to spend money at all. Of course this is opposed to our native Philadelphia ideas—Quaker-Anglo-Saxon and German descended—that heavy feasting is akin to godliness and permitted, while other things are vanities. It is becoming the custom to send wedding flowers to the hospitals afterwards, and who shall say that the costliness does not, in two ways, redeem itself? First, because flowers are the most beautiful things with which we can surround ourselves or welcome our guests among; and secondly, because just that little taste of being participants in the wedding—by the roses, if not by the cake—must have made a joyous day wherever those flowers went. Extravagance is a purely relative term. There is high authority, you know, for condemning the grudging spirit over a certain alabaster box of precious ointment, "which might have been sold for much and given to the poor." Now, to patronize the poor raisers of flowers, now widespread over the country, is certainly as proper an object as to help the food caterers along. Most things are relative in this world, and it may be less extravagant for a millionaire to spend five thousand dollars on one orchid than it is for Stokes Newington to order a plate of ice cream. All the luxuries of life, in their preparation, furnish employment to somebody, and it is entirely an individual accountability how much money is spent in keeping good trades going and artisans flourishing. To overfeed people who do not need food is much more of an extravagance, but even that keeps the enterprising dealers in choice provisions alive and thriving. One might as well say that it is criminal to put wood carvings up as the wainscot of a room



TABLE DECORATION

because paper, plaster or paint will do as well. That we have artist-artisans in West Philadelphia who can follow out even the elaborate teak-wood carvings of India, in this rich wood, is certainly matter of pride, but if nobody was sufficiently proud of his library to wish to stall his books in these exquisite surroundings such artists would not make their bread by their skill.

While the *Household* puts as the highest individual quality of all, that sort of integrity which always makes its home within its means, and is never ashamed of whitewashed walls and rag carpets, but very proud of them and happy in them when they mean independence of debt, it is folly to insist that people with large incomes, beyond their needs, shall give all this away as alms. It is far better to give most of it in orders for work; in employment to all the trades and occupations that ingenuity can devise. And so let the flower grower and seller rest assured that the Court is with them.—*Philadelphia Public Ledger*.

Table Decoration.

The accompanying illustration shows a table decoration recently arranged by Florists A. M. & J. B. Murdoch, of Pittsburgh, regarding which they write:

"This royal luncheon in purple and pure gold was given by Mrs. Robert Pitcairn,

wife of the vice-president of the Westinghouse Air Brake Co. Mr. Pitcairn is also prominent in railroad circles. A few such orders would soon rob Lent of its accented dullness.

"The design is a wheel of violets nine feet in diameter placed on a King Arthur's table; the cloth was of violet satin overlaid with white gauze edged with lace. Eight thousand violets were used.

"All the details of the table were carried out in the same color; little baskets of violets in which were hidden purple confections were at each plate.

"Raised a little above the hub of the wheel on wire supports was a Jack Horner pie containing the favors. To these were attached ribbons leading to each plate. This at first somewhat concealed the beauty of the wheel, but 'when the pie was opened' and the ribbons removed it showed to good advantage surrounded as it was by a service of pure gold said to be one of the costliest in the country.

"Purple tapers surmounted by shades of the same tint shed their soft light from golden candelabra upon a table which for beauty and richness could not have been surpassed.

"Among the parlor decorations were seen some fine specimens of *Dendrobium thyrsiflorum* and *D. densiflorum*, the pride of Thomas Fitzgerald, Mrs. Pitcairn's gardener."

Philadelphia.

EXHIBITION ECHOES.

There are two distinct classes in which roses are exhibited, one for the dealer who has the right and privilege of buying his flowers where he pleases, the other for the grower who is in *honor* bound to exhibit nothing but what he has himself grown. It has come to light that some roses have been purchased by growers and have been exhibited in the growers' class. This is disreputable and the management of these exhibitions should see to it that if it is not stopped the unscrupulous grower must not only be disqualified but publicly exposed.

Mr. Chas. P. Lambis wearing a supreme smile these times since Mr. John Burton carried off so many first premiums for cut roses at the recent show. The Hon. John is to be congratulated that he has the services of so worthy a manager as Mr. Lamb during his absence attending to his public duties at Harrisburg.

A mistake was made in reporting the weather in connection with the spring show. It rained in torrents on Friday—afternoon and evening—the last day.

E. L.

YOU WILL benefit the FLORIST by mentioning it every time you write one of our advertisers.

New York.

Mr. Parsons, Superintendent of Parks, says there will be new attractions in the shape of flower beds in all the parks next summer. It is about time Mr. Parsons. Of all the principal cities of the world New York is the poorest in floral decoration of its parks. It is true we have a beautiful park in Central Park, abundant as it does in lovely bits of natural scenery its equal may not be found in any city of the Union, but it is only a natural park. New York is surrounded with similar scenery and the mechanic and the shop girl find but little relief in studying turf and tree. It was recently proposed to spend a very large sum in widening the bridge road to facilitate society's fads, the muddy paths and monotonous grass was good enough for the poor. Men are appointed park commissioners who know nothing whatever of horticulture, and the florists here have shown a marked indifference to the matter. What is wanted—what we must eventually have—is flowers, flowers to gladden the soul of the weary, flowers to smile with the light of the sky. We may have a fine collection of flowering shrubs, but many of them are dead or dying. The herbaceous plants are very poor. There are no specimen conifers or rhododendrons or azaleas, no herbaceous borders with here and there a clump of *Yucca Filamentosa* and iris. There are plenty of rocks where *Sedum* acre could spread its golden mantle in early spring, or which could be covered with our own *Lysimachia Nummularia* or *Aubretia* purpurea, or the thousands of beautiful Alpines. There are cosy nooks where the most delicate of flowers could be enticed to bloom; there are lakes and ponds where aquatics would be in their glory. The plots each side and along the mall could be and should be made a picture of loveliness. There is every facility in Central Park to make it one of the finest and most interesting in the world. The New York Florists' Club, I am glad to be able to say, will take the matter in hand and bring pressure to bear in the right quarter.

JOHN YOUNG.

Chicago.

The Easter trade was very satisfactory. Florists report an increase in the total volume of sales of from 25 to 100% over last year, and the average increase is certainly not less than 40%. The bulk of the sales were of loose flowers and blooming plants. Of those who do not handle plants sales are reported to be from 75 to 95% loose flowers, but little made up work being called for. Retail prices ruled about 10% lower than last year, but immense quantities of flowers were sold and taken all together it was the most satisfactory Easter we have ever had. Every one sold out clean and could have sold more if it had been obtainable late in the day. There was a shortage of Jack-roses—many more could have been sold; the same may be said of white carnations. Violets sold well at 50 cents a bunch. Candelums were poor but Harrisii were fine. Tulips were the only noticeably slow stock. There was but a limited call for them and the supply was with difficulty worked off.

Florist Tom Rogers was struck by a State street grip car while driving recently and sustained a bad bruise on his head and a compound fracture of the right leg.

An office boy at Vaughan's seed store stole the cash box one night recently and fled the city. He was caught the next

day in Missouri and all but about \$75 recovered.

Among recent visitors to the city were Paul Berkwitz, of H. Bayersdorfer & Co., Philadelphia, and Chas. Dannacher, of Haverport, Iowa.

Secretary W. J. Stewart, of Boston, paid the city a flying visit just before Easter.

Samuel Pearce has a sport from the Bennett that resembles that rose in every way except that it is a climber.

The schedule of premiums for the fall exhibition of the Horticultural Society has been adopted and will soon be printed and distributed. A total of \$2,000 is offered and there will undoubtedly be a lively competition in some of the classes. There will be two competitions in cut flowers of roses and carnations, one on the first day and a repetition on the third day of the exhibition, thus keeping up the display in these classes to the end of the show. While chrysanthemums will still be one of the leading features it is intended to give greater prominence to other flowers than heretofore, so that it will be a general late fall exhibition rather than purely a chrysanthemum show.

Nothing new regarding the Hort. Dept. of the World's Fair. Director-General Davis is in Florida and nothing will be done until his return.

Boston.

When the figures are all in it will be found that the Easter trade for 1894 will compare favorably with any of its predecessors. The weather could not have been improved had it been made to order, and the weather is quite an item at such a time, not only to the grower who looks for its assistance in hastening or retarding his crops, but to the dealer who fears most of all the disastrous possibility of a stormy Easter Saturday, and knows from experience the inspiring effect of a bright sunny spring day upon the transient "shoppers" upon whose patronage so much of Easter success depends.

The flower stores were simply packed with buyers all day long and far into the night, and the loaded delivery wagons constantly departing bore ample testimony to the liberality with which the customers were spending their money. The demand for violets was unprecedented and it seemed as though there was no limit to the number that could be disposed of.

The sale of lilies, principally Harrisii and longiflorum, surpassed all previous records. This is true of both cut blooms and plants. There seems to be a decided reaction in favor of the longiflorum as compared with Harrisii. Customers are beginning to know the difference between these two, and they are learning that the Harrisii, although much larger and whiter, is no equal for its rival in keeping qualities and in general tidiness as a pot plant. One or two of the larger dealers found their store space too small and hired extra accommodations when available. There had been considerable speculation in advance as to the result on the market of the increased supply of lilies. It was plain to see that the number of Harrisii in readiness for Easter was very much greater than ever before, and all reports from other parts of the country bore a suggestive similarity, and predictions of a disastrous collapse in the lily trade were freely made.

Early in the week there were a good many frightened ones, but by Friday

night it became apparent that the scare was groundless, and instead of a glut there was in many quarters a positive scarcity, and no doubt a good many more lilies might have been sold could they have been obtained at the last moment. One of the large growers, finding the dealers unwilling to take chances by buying or engaging his stock in advance, and being himself disinclined to take the responsibility of holding the same till the last minute at his own risk for their accommodation, decided to "take the bull by the horns," and straightway secured a vacant store in an eligible location for Easter week. Advertisements of Easter plants at wholesale prices did the work only too well. The stock melted away like magic and would have been easily cleaned out had it been twice or three times as big.

The general quality of flowers in the market was remarkably good. This was no doubt owing largely to the early date and the steady cool weather. Violets and pansies were excellent, so were carnations. Of stocks, spruce, heath, lily of the valley, hyacinths, etc., there was an abundance. Roses averaged well in quality and there was a fair supply of all the leading varieties, with the exception of Bon Silences. Prices were somewhat lower than in previous years. Very little design work appears to have been done.

In addition to the supply of lilies of various kinds the market was well furnished with seasonable plants, such as azaleas, genistas, spiraea, tulips and hyacinths in pans, primulas, cyclamens and the like.

W. J. S.

OBITUARY.

In the death of Mr. Allen Lloyd of Indianapolis, there has passed from our midst one who was in all probability the oldest living representative of floriculture in this part of the country.

Born in the state of New York in 1808, he settled in Lafayette Ind. soon after his marriage, and being a great lover of both floriculture and horticulture, nearly fifty years ago he gave up his entire time to its pursuit, following it almost uninterruptedly until his death, March 10.

He was one of the first to see the advantages of, and to advocate holding a state fair, and after it was an established fact, was one of the first to exhibit flowers, fruits and vegetables, his exhibits being not only a credit to him as a grower, but going far to create a taste in others, in those early days when so little was known of them in a sparsely settled and comparatively new country.

Since its inception, he has been very much interested in the state chrysanthemum show, and though for the past few years he has been in feeble health, his interest never flagged.

While living at Lafayette, on the place now occupied by Mr. F. Dörner, he often shipped plants to both Indianapolis and Chicago, and was doubtless the first outside grower to appear in either of these now great markets.

A kind husband and father, a good neighbor, a genial gentleman, he will be greatly missed, not only by his companion who survives him, but by all who have had the pleasure of his acquaintance.

H.

Mr. H. E. CHITTY is contributing a very interesting series of articles on orchids to the *Paterson N. J. Call*.

WHEN WRITING advertisers please say that you saw the adv. in the AMERICAN FLORIST.



BALL DECORATION

News Notes.

PHILADELPHIA.—Louis C. Baumann, a well known florist of Germantown, died March 20, aged 65 years. A wife and daughter survive him.

ST. LOUIS.—S. Kehrman Jr. secretary of the Ellcard Floral Co. is confined to his bed, the result of an accident while on his way home on a cable train, but he expects to be able to attend to business in a week or ten days.

DETROIT.—Fire in the Detroit Opera House March 18 resulted in damage by smoke and water to the amount of several hundred dollars on the stock in the store of Mr. S. Taplin, whose place of business is at the right of the foyer.

OAKDALE, L. I.—The conservatories on the estate of Wm. K. Vanderbilt were destroyed by fire the morning of March 21. Many rare plants were ruined and several unique specimens were lost. The fire originated from a defective flue. The loss is estimated at about \$75,000.

JERSEY CITY, N. J.—Patrick H. Nugent, the florist, died March 19, of pneumonia. Mr. Nugent was born in Ireland and came to this country when a young man. In 1861 he was employed by Andrew Reid and learned the business with him. Mr. Nugent leaves a wife, daughter and three sons.

NEW ORLEANS.—The New Orleans Horticultural Society will hold a chrysanthemum show next November. An advance list of premiums to be offered has been issued. The premiums foot up to \$252. Copies of the list may be had on application to the secretary, Mr. Chas. Wise, Third and Prytanee streets.

HARTFORD, CONN.—The exhibition of spring flowering bulbs held by the Hartford County Hort. Society March 24 and

25 was a decided success. There was a splendid display, one of the best ever made here. The leading prize takers were A. N. Pierson of Cromwell, Captain J. W. Crane, John Coombs, J. H. Bardain, Stephen Delbar, all of this city, and B. E. Beemer of Wethersfield.

JAMAICA, N. Y.—The Linnaean Club of Jamaica is an association that has just "been organized for the diffusion of botanical knowledge, the encouragement of practical floriculture and the preservation and cultivation of our native plants, shrubs and trees. In addition to lectures and publications adapted to adults, it is proposed to furnish instruction for children in the rudiments of botany and the best methods of cultivating flowers and fruits, and to have semi-annual flower-shows at which prizes shall be given." Miss M. L. McCormick is president and all the other officers also are ladies.

"The Catalogue Tax" in Canada.

I would say to J. E. K. page 542, that the origin and history of this tax are well known here among the trade, and I don't think some of our "mail" men object very much to it. You see the flood of "States" catalogues is stopped immediately they enter Canada, and the persons to whom they are addressed are notified and asked to pay the duties; many of them pay not knowing beforehand what they are paying for, and when they receive the catalogue they are thoroughly disgusted and won't then order from that catalogue at any price. But our wide-awake mail men not only send their catalogues to Canada but also pay the duties on them. The recipients get a beautifully gotten up and interesting catalogue with all expenses prepaid; this at once makes a good impression and inspires confidence. W. F.

Add to the directory list Fred C. Smith, Ashland, Wis., as F.

Ball Decoration.

The decoration illustrated was for a dance at the Hotel St. George, Brooklyn, N. Y., and was arranged by Phillips. The flowering plants used were azaleas, genistas and daisies. The large palms concealed canary birds which sang beautifully and added much to the interest of the occasion. The festoons were of ivy, smilax and roses. The large square window was dressed with palms and genistas.

Society of American Florists.

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The Nomenclature Committee will meet in session at the Queens Hotel, Toronto, at 9 A. M., the day before the S. A. F. convention takes place in that city next August.

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WE ARE STILL GROWING.

This issue completes 652 pages of Volume 6, which is 20 pages more than the whole number of pages in Volume 5. And there are 18 numbers yet to come in the present volume. These will add at least 400 pages, making a total for Volume 6 of over 1,000 pages. Quite a book for one dollar.

Admirers of the FLORIST will no doubt be interested in the following illustration of its steady growth:

Volume 1,	438 pages.
Volume 2,	532 pages.
Volume 3,	586 pages.
Volume 4,	610 pages.
Volume 5,	632 pages.
Volume 6,	1,080 pages.

As will be noted the current volume shows an increase of more than 600 pages over Volume 1.

NEW YORK is going to have a Botanical Garden in one of its new parks, and it is going to be gotten up on such a magnificent scale that it will rival the Botanic Garden at Kew, England, the most important botanical garden in the world. Good. We want such a garden and there is no reason on earth why we should not have it. And it is mooted that the assistant director of the Kew gardens may be proffered the directorship of the New York garden. Can it be true that in this progressive and prosperous country with a population of seventy millions of people no one can be found able enough and willing to fill such a position? So far as ability is concerned we have abundant material in this country without importing it from England. Give us American citizens whose hearts and interests are American for American institutions.

UNDER the heading "Not so criminal" we print in another column some comments on the use of flowers, which recently appeared in the Philadelphia Public Ledger, and regarding which a correspondent sending us a copy says: "This deserves more than a passing notice. Let it be read over and over again; and when one is told of the fearful waste of money, and 'what a sin it is to spend so much for things that only last a day,' have this article handy."

ARRANGEMENTS for the sixteenth annual meeting of the American Nurserymen's Association at Minneapolis, Minn., the first Wednesday in June, are being rapidly completed. President S. M. Emery, a Minnesota man, is stirring up the twin cities of the northwest and the association will undoubtedly be well entertained on the occasion of their visit. The governor of Minnesota and the mayor of Minneapolis will formally welcome the association.

WE HAVE received from Messrs. C. B. Whitnall & Co., Milwaukee, Wis., a copy of a pamphlet recently issued by them and entitled "Floral Art." It is filled with illustrations of floral arrangements and contains some very pertinent comments on the use and abuse of flowers. It is, we judge, intended for free distribution to their customers and those likely to become customers and will undoubtedly prove a very effective advertisement.

WE HAVE received a copy of the first number of the *Southern Floral Magazine* to be published monthly at Clarksville, Tenn., by Morton & Titus. The subscription price is 50 cents a year. It is neatly gotten up, and as Mr. Morton is undoubtedly thoroughly familiar with the needs of southern amateurs he will certainly make it very useful to them. We should imagine that there would be an excellent field for such a periodical.

W. T.—Don't recollect the number and as present volume not yet indexed it would take considerable time to look up. If specially interested send to Prof. Wm. Trelease, Missouri Botanical Garden, St. Louis, Mo., for the pamphlet in which rules and regulations are given. This would be preferable to our synopsis.

A CALL reaches us for Schoenbrunn violet plants. Any one having these would do well to advertise them.

IN THIS ISSUE we continue our series of orchid plates. There are others yet to come.

Catalogues Received.

Harry Chapel, Williamsport, Pa., plants and seeds; Astoria Nurseries, Astoria, N. Y., seeds, plants and bulbs; Orcutt Seed and Plant Co., San Diego, Cal., seeds and plants; J. J. H. Gregory, Marblehead, Mass., seeds; Ellwanger & Barry, Rochester, N. Y., roses; W. W. Barnard & Co., Chicago, florists' seeds and supplies; A. M. C. Jongkindt Coninck, Dedemsvaart, Netherlands, hardy plants and trees; John Hartje, Indianapolis, Ind., chrysanthemums; John Henderson Co., Flushing, L. I., roses; Van Zanten & Nieuwerf, Beverwijk, Holland, Dutch flower roots.

Sensible and Pleasing.

Commenting upon the flower show to be given by the New York Florists' Club assisted by an influential list of patronesses, in aid of a New York hospital, the New York *Town Topics* says: "It is a much more pleasing and sensible idea than the perpetual theatricals, which are used to obtain funds for charities."

Cyclamens.

There is nothing like a visit to a trade cyclamen grower's to enable tyros to pick up practical information, as any good gardener can take in at a glance what are the essentials to success. It is one of the oddities of cyclamen culture, that rarely are better plants produced than are those which go into the London markets, and of these none again perhaps are better than are produced on the west side of the metropolis. That such should be the case is all the more remarkable, because the plants are usually at their best during the dead of winter in these trade-growing establishments. Although a fog-ridden locality, where of late it has been found needful to retard somewhat until the chrysanthemums have become exhausted. Cyclamen production in West

Middlesex has somewhat changed hands of late, some old growers having fallen out and others have taken their place. One of the oldest and best still is Mr. Warren, of Isleworth, and one of the newer and best is Mr. May of the same locality. Each has a number of long low span houses erected for cyclamen culture at St. Margaret's. Probably there is little difference in methods of culture in both cases, but there is some in strain. Mr. May has certainly bred a remarkably fine dwarf giganteum strain, those of the pure white and persicum types being wonderfully fine and compact. The old legginess of the giganteum forms has been eliminated, the stems are not less stout, or the blooms less fine, but the relative height of foliage and bloom is far more evenly balanced, and indeed the plants so far as habit, robustness and size of blooms are concerned, seem to be perfection. Thus looking over Mr. May's or indeed other cyclamen houses, one is struck with the fact that the plants are very easily grown to such perfection. The houses are generally span in form, rather low, so that just head room is obtained and no more. There is the maximum of light, with a minimum of wasted plant space, and as the stages are not more than 3½ feet wide, the whole are easily commanded from the center alleys. The stages are of broad trellis or open wood work; warmth from the pipes below is thus more readily passed to the plants above, more air is accessible and not least, when fumigation is needful, and fly will visit even the cleanest and best cultured stock; the smoke can pass up under the leaves with greater facility than in the case when the stages are close boarded. Greenfly is perhaps the most troublesome pest of the cyclamen grower, and therefore he wisely fumigates the plants before there are numerous evidences of the pest abounding. It is easier to prevent than to cure when the pest has got good foothold. The houses are heated relatively; one or two have double the heating power others have. The cooler houses serve to keep the plants slowly growing, the warmer ones serve to fetch up a batch into bloom rapidly when specially required. Did not our trade grower possess such facility he would often be in an awkward fix with respect to the supplying important offers. Only in the case of old corns left on hand the previous year do we find many in pots, beyond the customary 48's. All the earlier of the yearling production of some 6,000 are in these 48's and the earlier are in full bloom, while myriads of others are coming on in various stages of growth to keep up the demand which concludes about the end of April. Mr. May finds it needful to secure his loam from Banstead Downs, so that it is evident West Middlesex gives soil which has unsuitable properties. He sows his seed in pans during the months of August and September, pricks off the seedlings when strong enough to handle into 5-inch pots, about the middle of January, in light and not at all damp soil. Keep them in these until good growth has been made, then shift singly into 60-pots and later into 48's, in which they bloom with wonderful profusion. When some ten to twelve blooms are open the plants go to market, usually selling at good prices. In private gardens where, however, cyclamens are rarely done well, the blooms are valuable for pulling and they endure well. To gardeners, therefore, at this winter season a good batch of cyclamens in fine clean bloom is invaluable.—A. D., in *Gardeners' Chronicle*.

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Consignments Solicited. Special attention paid to
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BOSTON, April 1.	
Roses, La France, Jacobs	8.00 @ 15.00
" Bon Silence	1.00 @ 2.00
" Niphetos, Genders	2.00 @ 3.00
" Wootton	4.00 @ 6.00
" Mermets, Brides	3.00 @ 4.00
" Perles, Sunsets	3.00 @ 4.00
Carnations	1.00 @ 2.00
Violets	1.00 @ 2.00
Valley, tulips	4.00 @ 5.00
Franchis, narcissus	3.00 @ 4.00
Panicles	3.00 @ 4.00
Heliotropes	1.00 @ 2.00
Myosotis, mignonette	2.00 @ 3.00
Callas	2.00 @ 3.00
4.00 @ 5.00	
Harrisil lilies	8.00 @ 10.00
Smilax	2.00 @ 3.00
Adiantum	1.00 @ 1.50
Asparagus	3.00 @ 4.00
NEW YORK, April 1.	
Roses, Beauties	10.00 @ 50.00
" Myrtils	2.00 @ 3.00
" Bon Silence	2.00 @ 3.00
" Gontiers, Souira	2.00 @ 4.00
" Perles, Niphetos	1.00 @ 4.00
" Mermets, Brides	6.00 @ 8.00
" Franchis, Cousins	4.00 @ 5.00
" Hostes	5.00 @ 6.00
" La France, Albany	8.00 @ 12.00
Valley	3.00 @ 4.00
Tulips	3.00 @ 4.00
Daffodils	1.00 @ 1.50
Carnations	1.00 @ 1.50
Smilax	2.00 @ 3.00
PHILADELPHIA, April 1.	
Roses, Beauties	20.00 @ 40.00
" Brides	50.00 @ 100.00
" La France, Albany	50.00 @ 100.00
" Laing, Loizeta Magnas	25.00 @ 40.00
" Mermets, Brides	5.00 @ 10.00
" Wootton, Bennetts	5.00 @ 8.00
" Perles, Niphetos	3.00 @ 4.00
" Rothschilds	4.00 @ 6.00
" Hostes, Cousins, Watervilles	6.00 @ 8.00
Carnations long	1.00 @ 1.50
Valley, short	3.00 @ 4.00
Harrisil, short	6.00 @ 8.00
Harrisil, long	10.00 @ 12.00
Tulips	3.00 @ 5.00
Daffodils	4.00 @ 6.00
Violets, double	3.00 @ 4.00
Smilax	2.00 @ 3.00
Adiantum	1.00 @ 1.50
Had good Easter trade.	
CHICAGO, April 1.	
Roses, Bon Silences	4.00 @ 5.00
" Perles, Niphetos	4.00 @ 6.00
" Mermets	6.00 @ 10.00
" Brides	10.00 @ 12.00
" Beauties	15.00 @ 20.00
" Gontiers	5.00 @ 10.00
" Bennetts	6.00 @ 8.00
" La France	8.00 @ 10.00
" Jacobs	12.00 @ 18.00
Carnations, short	1.00 @ 2.00
Carnations, long	2.00 @ 4.00
Carnations, long, fancy	2.00 @ 4.00
Valley, Romans	4.00 @ 5.00
Calas	10.00 @ 15.00
Harrisil	15.00 @ 20.00
Candidum, short	4.00 @ 5.00
Candidum, long	10.00 @ 15.00
Violets	7.00 @ 10.00
Boyars	2.00 @ 3.00
Tulips	3.00 @ 6.00
Daffodils	4.00 @ 5.00
Dutch Hyacinths	5.00 @ 8.00
Smilax	20.00 @ 22.00
Adiantum	1.25 @ 1.50

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CAPE COD PINK POND LILY.

For price list, Plants and Cut Flowers,
address the original cultivators,
Chipman Bros.,
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Mention AMERICAN FLORIST.

Re Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

Customs Regulations.

At the close of a communication with the caption agricultural seeds in the Easter number of the *FLORIST* the editor states "that the present tariff law" "is subject to the individual interpretation of each custom officer in America in applying the law," which with due deference to the editor's better experience, I do not think is in accordance with the facts.

The chief officer of customs is undoubtedly the one who enforces the law, but the class and rate of duty is ascertained and reported to him by the appraiser and his decision is in turn subject to review by the Board of General Appraisers. That board is guided in its decisions by the statutes as to law, and by the evidence of reputable merchants, as to facts.

The following decision will perhaps illustrate the method, and show that the collector of customs is not an irresponsible autocrat in the imposition of duties on imports.

R. C.
DECISIONS OF THE BOARD OF GENERAL APPRAISERS.

TREASURY DEPARTMENT, OFFICE OF THE SECRETARY.

WASHINGTON, D. C., Feb. 6, 1891.

To Collectors and other Officers of the Customs.—The following decision of the Board of General Appraisers at New York as to the classification of imported goods are published for your information and guidance under the provisions of section 18 of the act of June 10, 1890.

O. L. SPAULDING.

(G. A. 273.)

PLANTS, FREE AND DUTIABLE—RHODODENDRONS, ROSE PLANTS AND CLEMATIS.

Before the U. S. General Appraisers at New York, January 26, 1891.

In the matter of the protests, 2851 A and 2852 A, of Chase Brothers' Company, against the decision of the collector of customs at Rochester, N. Y., as to the rate and amount of duties chargeable on certain live plants, imported per *Odium* and *Persian Monarch*, December 13 and 15, 1890.

Opinion by Sharretts, General Appraiser.

The grounds of objection presented in these protests which relate to the constitutionality of the act of October 1, 1890, having been fully discussed and ruled upon by the board in G. A. 242, will not be considered by us in the present case.

With regard to the claim of the appellants that five cases of rhododendrons, imported per *Persian Monarch*, December 15, 1890, should have been admitted free of duty under paragraph 666, it appears that the collector assessed duty thereon at 20 per cent. ad valorem, under paragraph 282, for the reason that the importers are in the nursery business and do not use any plants under glass. We are of the opinion that the importers' intention is not material, if the plants are of the kind specified in paragraph 666, and are chiefly used for forcing under glass for cut flowers or decorative purposes.

The *Encyclopædia Britannica*, referring to rhododendrons, states that no adequate distinction can be drawn between this genus and azaleas; we find also, as matter of fact, that they are of a kind chiefly grown under glass. The claim of the appellants relative thereto is therefore sustained.

Concerning the rose plants and clematis

in question, which were also returned for duty at 20 per cent. ad valorem, under paragraph 282, we find, from the evidence before us, that they belong to a class of plants which are chiefly used and generally known as nursery stock and are rarely grown under glass. The assessment of duty upon them is accordingly affirmed.

[Our correspondent R. C. is correct to this extent that all importers have a right to protest, (but few however have the time and disposition to make and follow such claims) but it is a fact well known to many of our large importers that the Secretary of the Treasury has in many of his decisions leaned toward the support of the local appraiser. The case mentioned in this paper some time since in which the local appraiser saw fit to claim a canna root to be a bulb is an example. This case was appealed and the Secretary of the Treasury sustained the decision of the appraiser (that it was a bulb) notwithstanding the Superintendent of the Botanical Garden at Washington furnished the importer a written note that in his judgment the canna was a plant. Such decisions as this prove that the secretary of the treasury has been in the habit of bolstering up the decision of the local appraiser, rather than seeking for facts in the case.]

Now that all appeals go to the Board of General Appraisers at New York, we may hope for better things, but look at the last clause in above decision of January 26 in which it is stated concerning rose plants "they belong to a class of plants which are chiefly used and generally known as nursery stock and little grown under glass." The assessing of duty upon them is accordingly affirmed." Now while we are not in a position to give a copy of the invoice referred to, may we not fairly assume that although some of the roses in question were suitable and might be used for growing under glass, the determination was to assess 20% duty on the whole invoice. Asimilar case to this has just occurred in this city. The appraiser holding that because a certain lot of H. P. roses were received in the spring, therefore they were for planting out of doors and were assessable at 20% whereas the same stock in December was passed by him free, because as he says they might then be used for forcing under glass. The absurdity of such a position throws ridicule upon the whole system. Of course the duty was paid under protest and when the decision of the general board at New York is made on the case it will be reported in these columns.

It would be well indeed if as R. C. says, the Board was "guided by the evidence of reputable merchants as to facts." We have ample proof that the Secretary of the Treasury was not; if the Board is, we have yet to learn it.—Ed.]

The Bulb Dealer's Talk on Shipments.

Occasionally a bone of contention, or perhaps a bone of misunderstanding, occurs between the florist and shipper of bulbs when an order includes bulbs that mature at different times. For instance, if X, Y, Z & Co. receive an order from Mr. Smith, florist, for, say freesias, which are ready in June, Roman hyacinths and other French bulbs which are ready in August, Dutch hyacinths, tulips and other Holland bulbs that are ready in September, and lily of the valley, spirea, etc., who are ready in November, in absence of instructions when are they to ship? If X, Y, Z & Co. make various shipments of these bulbs at the time they arrive,

Mr. Smith complains and probably makes a claim for extra expenses incurred by making so many shipments. On the other hand if X, Y, Z & Co. should hold Mr. Smith's order until September when it could all be filled with the exception of the lily of the valley and spirea, so as to save Mr. Smith the expense of receiving so many consignments, ten chances to one X, Y, Z & Co. would be hauled over the coals for keeping the early bulbs back. Now which is at fault in this matter—X, Y, Z & Co. or Mr. Smith? The bulb dealer thinks the party who orders is. Why? Because the dealer states in his list the different times at which the various bulbs are ready for shipment and in the absence of instructions from Mr. Smith he uses his best judgment in which several things have to be taken into consideration.

The first is the distance which the bulbs have to be sent; the second is the proportionate quantities of early and late maturing bulbs ordered. For instance, if John Brown, florist, several hundred miles away, should order \$20 worth of August bulbs and \$100 worth of September bulbs it is fair for the dealer to suppose the August bulbs are of minor importance to Mr. Brown, and considering the distance the bulbs are to be shipped, he probably holds them to forward with the September lot. Mr. Brown very likely writes X, Y, Z & Co. something like this: "My neighboring florist, Mr. Jenkins, bought his bulbs from A, B, C & Co. and received and planted them three weeks ago. I placed our order with you expecting that you could ship as early as any other dealer, but am exceedingly disappointed. My flowers will now come in three weeks later than Mr. Jenkins', and consequently I shall lose a thousand dollars." and the letter probably ends with a big claim for damages. X, Y, Z & Co. investigate the matter and find that Mr. Jenkins' order to A, B, C & Co. was only for August or early maturing bulbs, which of course would naturally be shipped on their arrival from France, or if Mr. Jenkins' order was of a general nature he was smart enough to give instructions when to make the different shipments.

NOW THE BULB DEALERS REQUEST that as the time for booking orders is approaching, that florists bear in mind in making out their orders the time when the various bulbs will be ready for shipment, and give their instructions when they wish their bulbs forwarded. This will then relieve us poor bulb dealers from the odium of having been neglectful in regard to shipments, when in reality we have been studying the interests of the florists.

BULB DEALERS.

[Bulb dealers have struck a key note. There have been many misunderstandings; surely some, if not all, may be avoided by reasonable attention, and oil poured on troubled waters if instructions are carefully made when ordering. We expect further suggestions.—Ed.]

Seed Warranty.

Ten times out of twelve failures are caused by too much or too little moisture, too deep sowing, protracted cold and often with rain, insects adapted to every species of vegetable growth. I asked one man how he had sown his flower seeds, which failed to come up. "Oh, two inches deep, same as the peas and beans," he replied. If our injured friends would lay the failure ten times in twelve to these causes and the other two times to us they would come about right. For these rea-

sons it is readily seen that a seedsman can not warrant his seed to grow, however well assured he is himself of its vitality, and on this account we are obliged to distinctly disclaim any responsibility. If the purchaser could warrant to us a knowledge of the proper treatment of his purchase, and venter suitable for germination, and also, freedom from depredations by insects and birds, then it would be right to warrant them to grow and produce a crop.

This is the unpleasant feature of the business—when a customer honestly believes you have imposed on him when you are quite certain of the contrary.—*James King, in Produce Trade Reporter.*

Mr. F. HOWCROFT of Howcroft & Watkins, London, will visit America in April.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

LILY OF THE VALLEY!
TRUE BERLIN PIPS.
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Price per original case of 2,500 pips, \$24;
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TUBEROSES, DOUBLE PEARL		
Fine Large Bulbs.....	\$1 00	\$ 7 50
GLADIOLUS, FINE MIXED	1 25	10 00
EXTRA CHOICE	1 75	15 00
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Dutch and Roman Hyacinths, Tulips, Narcissus and True Bermuda Lilies, (L. Harrisii) Special import offer for Fall and Summer of 1891 **NOW READY.** Do not fail to write for it. Liberal terms, fair prices, selected quality and square business treatment. Address

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Saddle River, N. J.

Washington.

Floral arrangements have for been even less conventional in form than ever before. Loose flowers at funerals, and long stemmed roses, orchids and occasionally great clusters of tulips, narcissus and jonquils interspersed with plenty of maiden hair ferns and backed by palms at receptions and dinners seem to be the rule. At funerals the casket is almost filled with flowers, most frequently lily of the valley, and when closed the cover is often strewn with the same flower.

An inexpensive but very effective basket of cut flowers was the centerpiece in the window of one of our leading florists. It was a round green straw basket four inches in depth and about three feet in circumference and attached to it a long handle. In one side was a short stemmed cluster of six Harrisii lilies, next a cluster of bright red and then one of bright yellow tulips, just above yet in the midst of these was a single stalk of purple hyacinths and uppermost a cluster of a dozen or more jonquils, the whole interspersed with sprays of asparagus. Attached to the handle near the top was a bow of delicate pink satin ribbon four inches wide with two long pendent streamers.

Ed. Schmid has removed to 712 Twelfth street, a few blocks north of his old location. He has a splendidly appointed store at the new place.

It is understood that the "White La France" will make its debut next season.

JEFFERSON CITY, Mo.—Mr. H. Busch of the firm of Busch & Puffer, florists, was married recently to Miss Lena Young of Portland, Oregon.

When you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a practical florist and N. gardener, single, see 22, 16 years' experience in all branches of greenhouse work. Address F. BURNETT & W. Columbus Ind.

SITUATION WANTED—By a young, reliable man, S. by first of June or July, growing roses and all other kinds of cut flowers. For references address FORSMAN, care American Florist, Chicago.

SITUATION WANTED—By young German; married; wants good position as florist or vegetable gardener. Good references. Address OTTO HOIST, 51 W. Huron St., near Chicago.

SITUATION WANTED—By an unmarried and sober young gardener and florist, 21 years old, private place near New York. Address CONRAD, 80 STICK, care Schutt, 108 Greenwich street, New York City.

SITUATION WANTED—Competent single florist S. and gardener, well posted in all branches of business. Only first class place will be accepted. State full particulars. Address MARSHALL, care American Florist.

SITUATION WANTED—By practical florist, propagator and landscape gardener, 20 years' experience in his profession; German, single, private place preferred. Address HENRY HELLER, Fancher Creek Nursery, Fresno, Cal.

SITUATION WANTED—By a practical florist S. private or commercial place. Good rose and cut flower grower. Well up in growing general stock of greenhouse plants. Good references. Address A. P. 20 West 31st Street, New York.

SITUATION WANTED—By an experienced gardener. Well up in fruit growing; understands budding and grafting of ornamentals and fruit trees very well. No. 1 references. Address W. G. in Livingston Place, New York.

SITUATION WANTED—By a first class professional gardener and florist, 14 years' experience in all branches of the business. Private place preferred. Best references. Address YODA, care American Florist, Chicago.

SITUATION WANTED—By single man superior tender gardener and florist, 14 years' experience in the cultivation of grapes, roses, tropical plants, lawns, etc. 10 to 12 years experience. Address J. R. W. 304 East 47th street, New York City.

SITUATION WANTED—By a young man, competent to do general greenhouse and florist work. States the forcing of roses, carnations and all kinds of bulbs for winter flowering. Address A. J. care Mrs. G. B. Frayell, 32 Washington St., Marion, Ind.

SITUATION WANTED—By a first class rose grower and general plantman. Good decorator and cut flower worker. Sober, honest and industrious; 18 years' experience; wishes class of private or commercial place. Address CULTIVATOR, care American Florist, Chicago.

SITUATION WANTED—By a practical florist and gardener, 30 years old, single, 14 years' experience in greenhouse and landscape gardening, vegetables and fruit growing, of all kinds; steady, sober and steady; private preferred; best of references; state wages. Address R. N. care American Florist.

SITUATION WANTED—As florist, gardener and propagator, 10 years' experience in growing roses, carnations, violets and fancy bedding plants; German; single; 30 years of age; strictly sober; very industrious and honest. Good wages expected. Address GARDENER, care P. J. Deuser, National Home, Milwaukee, Wis.

SITUATION WANTED—A position in a commercial place as manager or foreman, by a practical florist; good grower of roses, carnations, violets and plants in general. Also understands the forcing of all kinds of bulbs; 18 years' experience. Also practical steam plumber and can do all kinds of piping for greenhouse heating. Good wages and first class position only wanted. Address R. care American Florist, Chicago.

WANTED—Catalogues and price lists of all kinds of stock to start in florist business. WILLIAM MULLER, Charleston Heights, Md.

WANTED—5,000 plants of all kinds to sell on commission. Address with list and terms of sales, COLUMBIA GREENHOUSE CO., Columbia, Tenn.

WANTED—Competent commercial florist—must thoroughly understand roses—to take charge of small but growing commercial place; single man preferred. Address with terms and references JOY & SON, Nashville, Tenn.

WANTED—I have a store and an established trade that will take the product of 15,000 feet of glass, and want partner with capital to put up such a plant. It is immaterial whether he understands the business or not. Address W. care American Florist, Chicago.

WANTED—A first class rose grower, one that is well up in the florist business, to take charge of 15,000 feet of glass where cut flowers are raised. Must be sober and industrious. Send wages experience and references. Wanted at once. KEMBLE FLORIST CO., Oskaloosa, Iowa.

WANTED—A strictly first class man as a foreman, must have had a large experience and be able to give the best of references; must be a very good wages to the right man; the business is almost entirely rose growing; state wages wanted and if married. Address F. X. care Am. Florist.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES, A SPECIALTY. ROSES.

THE COMBING PERFECTED ROSES.

All the New and Popular Roses, Plants. Catalogue of Prices Now Ready.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00. Special rates given for quantities from 5,000 and upwards.

JOHN H. SEEVERS,

25 Post Street, - SAN FRANCISCO, CAL.
- Mention American Florist.

Every Florist! Every Nurseryman! Every Seedman!

SHOULD HAVE OUR TRADE DIRECTORY.

Address AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

WANTED—A reliable man with good references to take charge of a small farm at Bristol, L. I. Cottage, greenhouses, graperies attached to keep in good order and run at his own expense. Rent free. For further particulars apply by letter to ROBERT JOHNSTON, Swan Point Road, Providence, R. I.

WANTED—Capable man with business qualifications; good worker; to take a business man on country home place in suburb of a large city on about 70 acres fine soil under plow; greenhouse about 2,500 feet of glass, heated by natural gas. All necessary outfit furnished. Address F. F. care American Florist, Chicago.

FOR SALE—Florist's store in a large city established seven years in good location; doing good business, reasons for selling explained on application. Address M. G. R. American Florist.

FOR SALE—A good chance, florist and seed store with 500 feet of glass, heated with hot water; a complete stock of plants for spring prominently located in the center of the city with 40,000 inhabitants, and everything sold over the counter, will sell reasonable and on easy terms; reason for selling want to go west in some other business. For particulars address 38 and 50 West Scott Place, Elizabeth, N. J.

FOR SALE—Well established florist and gardening business of 20 years successful standing; good retail and wholesale trade in general; four good houses and lot of cash, full of stuff for spring; lots of one and more boxes and wagons, four acres of land inside the corporation city water works all over the ground, best for celery growing; also, lease of 6 acres of good land, 1/2 mile of railroad station; price \$4,000, will sell on terms. Address G. N. care American Florist.

C. H. JOOSTEN,

3 Centies Slip, - NEW YORK, IMPORTER OF—
Bulbs and Plants.
PRICES ON APPLICATION.
Mention American Florist

W. W. Barnard & Co.,

6 & 8 North Clark Street, CHICAGO.
SEEDS, BULBS, IMPLEMENTS.

Please write us if you fail to receive our trade list for Florists. Illustrated Seed Catalogue mailed free to any address.

Providence.

The Rhode Island Horticultural Society has voted to hold a chrysanthemum exhibition in November and will spare no pains or expense to make it the leading exhibition in the New England States. The exhibition given by the society last fall was a revelation to many of the visitors and has created a greater desire than ever before for exhibitions of the wonderful flower.

The society has just held a very successful exhibition of spring flowering plants, and will hold a rose and strawberry exhibition in June.

This old society seems to be roused from the lethargy into which it had fallen and is striving to take a front rank in the long line of horticultural societies in this country. C. W. SMITH, Sec'y.

Minneapolis.

At the last meeting of the Florist Club it was decided to hold a chrysanthemum show November 10 to 13 inclusive. A committee consisting of Wyman Elliot, S. Y. Haines and E. Nagel was appointed to have full charge of the exhibition. They propose to have out a premium list at an early date.

Whether the state society will hold a chrysanthemum exhibition next fall is still undecided. According to previous agreement St. Paul has the right to the show this year, as Minneapolis had it last fall, and if the St. Paul florists want it Minneapolis will turn in and help. A committee was appointed by the state society to work the matter up among the St. Paul florists and report at this meeting but failed to do so. N.

An Unpleasant "Development."

A well-known young man-about-town called at a leading florist's the other morning and mentioned that he had received a bill requesting him to pay \$20 or \$30 for flowers, and stated that he had never ordered the flowers and knew nothing about them. The florist looked up the order that had been received and found that it was a letter written in a female hand, inclosing the man's card and directing that the flowers in question should be sent to the address of a young and popular married woman in society. The note had been delivered by a District Messenger boy. On seeing the order, the young man insisted that it was all a mystery to him and that he had not written the note nor inclosed his card. He said that he had met the young married woman quite recently at Delmonico's and that she had thanked him for a box of lovely flowers, but he did not know what she was talking about. He asked, of course, what he should do about it and the florist responded that if he had not ordered the flowers he could not of course be expected to pay for them. The bill was accordingly marked paid and the account was written off. Several other tradesmen have met with somewhat similar experiences and the question that has arisen is of course whether or not this is a new and ingenious device for running up trifling bills without the necessity of liquidating the indebtedness thus incurred. Nineteenth century civilization certainly shows a very quaint development.—*New York World*.

IF YOU LIKE THE AMERICAN FLORIST give it your fullest support by confining your orders to those who advertise in its columns and mention the paper when ordering.

ROOTED CUTTINGS.

CARNATIONS AND COLEUS.

20,000 MRS. FISHER ready the early part of April; other sorts later on. Send for prices on what you need. I shall continue to propagate until May 1st.
COLEUS in assortment. All the best bedders at \$5.00 per 1000. Golden Bedder and Verschaffeltii if ordered alone, at \$7.00 per 1000.

Fuchsias and Petunias in Limited Quantity. Choice Sorts.

SMILAX.

This is one of my Spring specialties and is gotten up in first class shape, at \$6 per 1000. Samples 1 c.
CANNA EHEMANNI and **EMILE LECLAIRE**. I am selling these at \$5.00 per 100 to clean them out—they will not last long at the price.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

Mention American Florist.

LIZZIE MCGOWAN,

* * THE QUEEN OF WHITE CARNATIONS! * *

Will be ready for distribution February 10th, '91. Price, \$12 per 100; \$100 per 1000, for strong well rooted plants from cutting bench. Plants well established in small pots, \$3 per dozen.

Send for price and descriptive list of this and other sorts.

ADDRESS

H. E. CHITTY, PATERSON, N. J.

Mention American Florist.

Chrysanthemums.

Catalogue with description of my two new sets now ready. Sent on application.

The following varieties are offered at \$1.00 per 100 for cash:

KIOTO, L. B. BIRD, H. CANNELL, GOLD, PURITAN, GLORIOSUM, CULLINGFORDII, GRANDIFLORUM, M. E. NICHOLS, L. CANNING, E. G. HILL..... \$1.00 per 100
W. H. LINCOLN..... 6.00 per 100
VALAUBCHE..... 8.00 per 100
LOUIS ROCHER..... 5.00 per 100
H. E. WIDENER..... 1.50 per doz.

JOHN THORPE
PEARL RIVER, NEW YORK.

CHRYSANTHEMUMS.

Fine, healthy stock of all the finest Exhibition varieties now ready for delivery.

WATER LILIES.

All the finest New, Rare and Hardy varieties.

WM. TRICKER,
DONGAN HILLS, S. I., N. Y.

CHRYSANTHEMUMS.

HOLLIS' SEEDLINGS OF 1890.

Nine distinct and choice varieties. Prospective prize winners of 1891 need them. Best quality and lowest price.

35 to 50 cents each; \$3.00 for the set. Send for descriptive list.

GEORGE HOLLIS, South Weymouth, Mass.

COLEUS.

ROOTED CUTTINGS
Now Ready.

In all the leading varieties at 75 cents per 100; \$6.00 per 1000.

MRS. S. P. CUSHING, Weymouth, Mass.

CARNATIONS, standard sorts..... \$3.00
DAHLIAS, choice, selected..... 8.00
BOUVARDIAS, best kinds..... 3.00
McCREA & COLE, Battle Creek, Mich.

Per 100
CHRYSANTHEMUMS, Per 1000,
\$25.00, many choice varieties..... \$3.00
GERANIUMS, 10 to 20 splendid sorts... 3.00
ROSES, all the best standard vars.,
my selection..... 4.00
VERBENAS, in good varieties..... 2.50
ALYSSUM, dbl. white, nice young pils 3.00
CANNAS, in six splendid vars..... 3.00
DOUBLE WHITE FEVERFEW, strong
2 inch, ready to shift..... 3.00
HELIOTROPE, Garfield (best purple)
2½ inch..... 3.00
SALVIA, scarlet, white, black & var 3.00

Address N. S. GRIFFITH,
JACKSON CO. INDEPENDENCE, MO.
(Independence is well located for shipping, being
5 miles east of Kansas City.)

THE AMERICAN FLORIST CO.'S

TRADE

DIRECTORY

OF { FLORISTS,
NURSERYMEN,
SEEDSMEN,
OF THE
UNITED STATES AND CANADA,
1890.

No one in the Trade can afford to be without it.

PRICE, \$2.00.

ADDRESS:

AMERICAN FLORIST CO.

54 La Salle Street, CHICAGO.

Ready Now!

One hundred thousand Rooted Cuttings and young plants of

CARNATIONS,

including Silver Spray, Tidal Wave, Nellie Lewis, L. L. Lamborn and Fair Rosamond, and seventy-five other new and standard varieties, with Novelties of 1891.

Send for list, and order early to avoid disappointment.

GEO. HANCOCK,

GRAND HAVEN, MICH.

Mention American Florist.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. Shelmire,
AVONDALE, PA.

Mention American Florist.

CARNATIONS. ROOTED CUTTINGS

Of New and Old varieties at the lowest price possible to secure good stock from healthy plants. Seventy-five thousand will be ready by Feb. 1st. Send for catalogue or price list.

SEND ORDERS EARLY.

ISAAC LARKIN, Toughkenamon, Pa.

Carnation Cuttings.

Boxed off and well established. Send for Price List.

DE WITT BROS.,

BRISTOL, PENNSYLVANIA

Mention American Florist.

Rooted Cuttings of Carnations

In great quantity, ready now.

Also 25,000 PEARL TUBEROSE BULBS

1st size at \$7.00 per 1000.

2d size at \$5.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

Mention American Florist.

Carnation Cuttings.

30,000 L. L. LAMBORN.

10,000 GRACE WILDER.

10,000 PORTIA.

Special prices on large lots.

WM. SWAYNE,

P. O. Box 226. KENNETT SQUARE, PA.

A SOLID ACRE OF HARDY PINKS

SOLIDLY FROZEN

into the ground, but will thaw out BRIGHT and EARLY. Orders booked now for Spring Shipment.

THESE PINKS do not produce seed, but increase from the root, and live year after year in the open ground. Send for list to

THADDEUS HALE, South Byfield, Mass.

LAMBORN AND OTHER CARNATIONS.

Rooted Cuttings and Plants now ready.

J. J. STYER, Concordville, Pa.

40,000 Young Violet Plants

MARIE LOUISE, ready April 15th for distribution, at \$5.00 per 1000.

SCHILLER & MAILANDER,

NILES CENTRE, ILLINOIS.

THE LATEST AND GRANDEST NOVELTY OUT.

NELLIE LEWIS CARNATION.



Flowers very large and full, and of a color never before seen in Carnations — AN EXQUISITE SHADE OF PINK.

W. J. PALMER & SON,

Florists of Buffalo, N. Y. say:

"I had an opportunity of seeing Nellie Lewis Carnation in full bloom on Jan. 15th, and a grand sight it was. I consider it a better and finer Pink Carnation than Grace Wilder. Though the flowers do not demand \$1.00 each as we read about of late, they will get there just the same."

For decorative purposes and corsage bouquets, they are unsurpassed. A bowl filled with them used at a dinner a short time ago, lighted up the entire table. Don't fail to place your order at once, as we control the entire stock and have only a limited number of plants.

Price, Rooted Cuttings, per 100, \$10.00.

Plants, 2-in. pots, per 100, \$12.00.

VICK'S SEEDS NEVER DISAPPOINT, is the verdict of the millions who have planted them.

VICK'S FLORAL GUIDE for 1891, contains over 100 large pages, hundreds of illustrations, colored plates, Best Novelties, all worthy of cultivation; \$1.00 and \$2.00 cash prizes. Price, 10 cents, which deduct from first order and it costs nothing.

JAMES VICK, SEEDSMAN, Rochester, N. Y.

ROOTED COLEUS.

GOLDEN BEDDER, VERSCHAFFELTII, HERO, FIREBRAND, J. GOODE, YEDDO, KIRKPATRICK, GLORY OF AUTUMN, CHICAGO BEDDER,

75 cents per 100; \$6.00 per 1000.

CASH WITH ORDER. STRONG ROOTED CUTTINGS.

FUCHSIAS.

STORM KING, CARL HALT, MINNESOTA, ELM CITY, MME. VANDER-STRASS, PURPLE PRINCE, PRES. GUNTHER, W. E. WAIT, DUCHESSE OF ALBANY. Very fine plants from 2½-inch pots, \$2.50 per 100.

S. B. FIELD, Roselle, N. J.

Mention American Florist.

ROOTED

COLEUS CUTTINGS.

Golden Bedder, Golden Verschaffeltii, Crimson Verschaffeltii, Peter Henderson, Firebrand, Glory of Autumn, Sunray, J. Goode, Crimson Bedder, Sunser, Etc.

Ten strong Cuttings each, of above ten varieties, by Mail, One Dollar.

Twenty fine sorts, including above, five of each, by Mail, One Dollar.

Write for prices on larger lots by Express. Samples of the 20 sorts mailed for 25 cts. All cuttings strong and healthy, labeled, and well rooted.

ALEX. MCBRIDE, ALPLAUS, NEW YORK

Mention American Florist.

APRIL WHOLESALE. NOW READY.

The Largest and most complete **TRADE LIST** published in the United States, and what is more important to the florist, **THE LOWEST PRICES.** If you do not receive it regularly, send your address on a postal card to

McGREGOR BROS., Springfield, O.

Mention American Florist.

Providence.

Thomas Curley on Harkness street had all of his stock ruined a few days before Christmas by the bursting of a gas main in the street. This is the second time he has suffered by the same cause. The gas company will settle.

P. McCrea on Smith street has a new rose house that he built last summer that is doing immense; the house is 275 feet long, 25 feet wide, $\frac{3}{4}$ span, double thick glass, 16x24, heated by hot water under pressure, and is much admired here by all the florists as a model house. He grows for the trade.

Johnston Bros.' flower store on Westminster street has a very large business in choice cut flowers and their window makes a very attractive display.

Henry Cairns of East Providence started a store on the principal street here, but had to give up after a month's struggle.

E. D. Clark, rose grower on Tockwotten street, has some very fine roses this season. His long stemmed Beauties are well grown.

Wm. Appleton Jr., successor to R. Hogg on Broadway, is doing very well since he started two years ago. He is ably assisted by his foreman, Robt. Johnston Jr., who has things looking well. B.

Taste in Arrangement.

During a recent correspondence with a friend on the subject of decorations, the use of foliage with flowers, masses of color, etc., the following expressions were used and as I consider them too valuable to be buried in my coat pocket I send them to the FLORIST. Here they are:

"It is true that savage and uncultivated minds ask for quantity of color in ornament and sound in music, quantity of food, etc. In short they believe that all they need in order to be happy is an abundance of those things which have given them pleasure. The child—either young or grown—being pleased by the bright colors of flowers that meet its eye at comparatively long intervals of time and dispersed over much space thinks to enhance its pleasure by getting the greatest quantity of color together. But time and much experience of dulled nerves force him at last to recognize the true laws governing the pleasurable exercise of all our senses."

I think that some of our brother florists who put 2,000 roses on a table ought to have an opportunity to read the above. C. B. W.

A Carriage Bouquet Holder.

The New York Journal gives an illustration and description of a device for holding my lady's bouquet while in her carriage on the way to balls, the theater, etc. It is like a small vase with a flaring top, of a shape to fit the handle of a large bouquet and is attached to one of the front panels of the carriage.

Violet Plants.

Will some violet grower please tell me whether violet plants bloomed one winter in cold frame will do as well another year as young plants? C.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

DON'T FAIL to secure a few plants of that wonderful **VERBENA CLIMAXER**. Have never seen anything better, all points considered. See our January No. 3 Ready now, 6 for 6c; 12 for 12c; 25 for \$1.30. Heavy stock, perfectly healthy. By the 100 and 1,000 in March and April. See other special offers.

J. C. GIBSON, WOODBURY, N. J.

200,000 VERBENAS.

Plants, - per 100, \$2.50; per 1000, \$20.00; 5,000, \$90.00.
Rooted Cuttings, - \$1.00; " 8.00; " \$30.00.
THE FOLLOWING UNSOLICITED TESTIMONIALS WERE RECEIVED IN FIRST MAIL TO-DAY, FEB. 20th:
BRYPALAN, N. Y., Feb. 19th.—Received verbenas. They were very satisfactory. Thanks for good count and healthy stock. S. M. MILY.
CANTON, O., Feb. 18th.—Received verbenas in good condition except Crystal (replied). All the others are splendid. S. M. MILY.
ALEXANDRIA, VA., Feb. 19th.—The plants arrived yesterday in good condition. Thanks to you for promptness and liberality. S. M. MILY.
SEND FOR PRICE LIST.

We have one of the finest and largest stocks of Verbenas in the country, entirely free of

RUST AND MILDEW.

Microscopic examination shows no trace of the verberna mite. Our collection of sixty varieties contains the

Finest Old and New Varieties

fully as healthy as seedlings, and beyond comparison in color and habit. We are able to root 30,000 to 50,000 per week and can fill all orders in a reasonable time.

J. L. DILLON, Bloomsburg, Pa.

VERBENAS.

—NOW READY—

General Collection 2½-inch pots.	Per 100	Per 1000
XX Mammoth Set.	\$1.00	\$25.00
Golden Verveillette.	1.25	30.00
Rooted Cuttings.	1.25	30.00
General Collection	1.00	8.00
Golden Verveillette, Golden	1.25	30.00
Bender and Verveillette.	1.25	30.00
Lebanon Verbenas, strong, 1 year old.	1.25	30.00
Heliottree, Rooted Cuttings, named.	1.25	30.00
Calceolarias	1.25	30.00
Acerolarias	1.25	30.00
Salvia Splendens	1.25	30.00
Pewee	1.25	30.00
Begonia Verbenas, Metallic, etc.	1.25	30.00
Vincas, strong, 1 year old	1.25	30.00
Ampelopsis Veitchii, strong plants.	1.25	30.00
Chrysanthemum varieties and prices on application.		
ROSES, extra fine plants, Perles, Mermet, Bride, Mme. Cusin, Mme. de Watville, S. D'un Ami, Niphetos, Sunset, La France, Cook, Goulier, Bon	2½-inch sets 5.00	45.00
Duchess of Albany	10.00	10.00
Mme. Host and deau, de Watville	6.00	6.00
Trade List of Florists' Stock Free.		

WOOD BROTHERS,

(Successors to I. C. WOOD & BRO., FISHKILL, N. Y.)

VERBENAS.

STRONG

ROOTED

CUTTINGS.

clean and sure to please, \$5.00 per 1000. CASH WITH ORDER.

W. B. WOODRUFF, Westfield, N. J.

Surplus Stock

Abutilon Eclipse	2 in.	Per Doz	Per 100
" Golden Bells	"	60	60
" in variety	"	60	60
Agatha Celestis (blue daisy)	"	60	60
Akenia Malvaviscus	"	60	60
Crape Myrtle, 3 colors	3½ in.	1.00	1.00
Reverend Little Gem	3 in.	75	5.00
Ceraniums, standard sorts	"	75	5.00
" scented	2 in.	60	4.00
Gaaphium Latum	"	60	4.00
Geranium, Mad. Saleroi	"	60	4.00
Hibiscus, in variety	4 in.	1.00	8.00
" English and variegated	3 in.	75	5.00
Lantana, standard sorts	2 in.	60	4.00
" best white	4 in.	1.00	8.00
Nesembryanthemum Cor. Var.	2 in.	60	4.00
Nierembergia Gracilis	2 in.	60	4.00
Pila Muscosa	2 in.	60	4.00
Plumbago Capensis	4 in.	75	6.00
Plumbago Capensis Alba	2 in.	60	4.00
Roses, Hermosa, M. Guillot, Mad. Jos. Schwartz	2 in.	60	4.00
Roses, Bride, La France, Perle, Mermet, M. Guillot, Goulier, 3 in.	75	5.00	
Roses Countess de la Barle Corneille Cook, Camons Mad. Scipio Cochet, Mad. Cecil, Brunner, M. Niel	"	60	4.00
Rose, St. Pierre, de St. Pier, Giant and Genl. Jacq.	2½ in.	60	4.00
Verbenas, standard sorts	2 in.	60	3.00
" Vesta, finest white, in	60	4.00	
cuttings	"	1.00	
Verbenas, general collection, 7½ per 1000		75	

A. GIDDINGS, Danville, Ill.

CUT SMILAX.

I make a specialty of Smilax, and am prepared to fill orders promptly. Price, 20 cents per string cut. J. C. JOSEPH & SONS, 108 Garfield Ave., Sterling, Ill.

VERBENAS.

PERFECTLY FREE FROM RUST.

20 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$35.
Rooted cuttings of same, 100 \$1; 1000 \$9.
Fine stock Heliottree, 2½-inch, \$3 per 100.
Primroses, double, 2½-inch, \$2 per 100.
" single, per 100 \$1.
Geraniums—latest Novelties.
Lantana borbonica, 2½-inch, 4-inch \$3.00 per dozen.
Miscellaneous stock of all kinds.

ROSES.

Mad. Hoste, La France \$5.00 per 100.
Duchess of Albany \$7.00 per 100.
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H. P.'s purchaser's choice, \$6.00 per 100 or \$50.00 per 1000.
H. P.'s, our choice, \$5 per 100 or \$40 per 1000.

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SPEAK QUICK! THIS OFFER FOR TWO WEEKS ONLY.

2½-inch pots, - \$2 per 100; \$15 per 1000
Rooted Cuttings, 75c. per 100; \$7 per 1000

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DAISY SNOWFLAKE

Daisy Snowflake.—This Daisy, if treated like Violets, will give splendid returns for all labor bestowed upon it. I grow it by the thousands and cannot supply the demand for them as it keeps fresh from 2 to 3 weeks after being cut, and then looks as fresh as other white flowers just cut. The flowers are borne on stout long stems, fine white and beautifully quilted, and average as large as a 50-cent piece. It is the best of all the white daisies I have ever seen.

Price, \$1 per doz. free by mail; \$5 per 100 by express

SEE WHAT F. J. KELLER SAYS ABOUT THIS DAISY:

ROCHESTER, Jan. 20th.
Daisy Snowflake is quite a useful flower both for floral designs and put in with cut flowers, and when tied up in small bunches they sell very rapidly with our customers. We are a great many in place of carnations as it is cheaper and covers almost the same space, and keeps fresh considerably longer. Be sure and send me every 2 boxes you can cut, as I cannot get them fast enough for my customers. I am in the habit of buying Daisy Snowflake because it keeps fresh for 2 to 3 weeks. I feel I cannot say too much in favor of this Daisy. F. J. KELLER.

MISSION RIDGE GREENHOUSES.

CHATTANOOGA, TENN., March 1st '91.
FRED, SCHNEIDER, DEAR SIR:—We received our Daisies yesterday, and Daisies they are! Enclosed please find our order for 1000 Daisies and 1000 plants. Please send them as soon as you can, as we want to get them to blooming well before Easter. Can you supply the cut blooms and at what price? They ship so excellently that we would like to get some for immediate use.

Very resp't MAC GOWAN & COOK

P. S.—We respect our customers; please send us its value in Cut Flowers of the Daisies with shipment.

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Plants, FERNS.

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TO MAKE ROOM.

KENTIA, Bel and Post, 3 ft. high, 4 to 5 character leaves..... \$3.00
" Bel and Post, specimens, 3 1/2 feet high, 5 to 6 character leaves..... 5.00
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Aspidistra variegata, 5 to 6 leaves..... .75
Coccoloba Weddelliana, 2 feet high..... 1.50
All the above grown cool and in fine condition for immediate use.

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Largest stock in the West. Over fifty varieties of PALMS at 5 cts. to \$10.00 each.

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Send for price list.

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DRACAENA INDIVISA.

From 2-inch pots, per 100 \$3; per 1000 \$25. From 3 1/2-in. pots, per 100 \$5; per 1000 \$45. From boxes, once transplanted, per 100 \$4; per 1000 \$35.

GLOXINIA SEEDLINGS.

From strictly first class *Erecta grandiflora* type—all figured and spotted..... per 100 \$5; per 1000 \$45.

Ready for delivery April 1, '91.

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Six separate colors, per 100, \$3; mixed, \$2.75. Double, \$4.50; mixed, \$4.00. Sent by mail. They are not for spring sales, but you will sell them out during summer and fall. Try it year.

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Blooms freely every Spring. Flowers unsurpassed for florists' use. Over \$150 realized last Spring from flowers sold at wholesale, from less than 300 2-year old plants.

PRICE: 12 to 18 inches, \$2.00 for 10; \$18.00 per 100.
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HYDRANGEA PAN. GRAND. Our one year old plants are superior to any offered, and lower priced. 2 to 4 stems 18 to 24 inches, 75c.

for 10; \$6.00 per 100; \$50.00 per 1000.
2 to 2 1/2 feet, \$1.25 per 10; \$10.00 per 100.

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CHOICE

YOUNG STOCK FOR REPLANTING.
Specimens for Lawns, Parks, Cemeteries.



EVERGREENS,

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TWENTY ACRES devoted to the growth of choice Evergreens alone. Specimen Trees, Hedging, Dwarfs, for potting and Cemetery planting. The Trade supplied upon liberal terms.

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We have now on hand a large stock of FIRST CLASS APPLE STOCKS suitable for budding or grafting. Sample on application. PRICE, \$6 per 1000, BOXED AND FREIGHT PAID, when not less than 5,000 are taken.

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Our large supply of this is now ready. It has been kept moist and is in excellent condition for planting. No frost necessary to germinate it. Sample on application. PRICE, \$12 per Bushel Measure.

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Primula Obconica, 2 1/2-inch.....	Per 100 \$4.00
" " 3-inch.....	8.00
Coleus Golden Bedder and Setting Sun, 2-inch.....	3.00
Vinca Rosea, very fine, 2 1/2-inch.....	3.00
Vinca Alba, very fine, 2 1/2 inch.....	3.00
Echeveria Secunda Glauca, strong plants.....	3.00
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Dahlias, field grown roots.....	5.00
Yucca filiformis, very choice stock.....	8.00

Address **MICHEL PLANT AND SEED CO., St. Louis, Mo.**
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3,000,000 HARDY CUT FERNS

MOSS, Sphagnum and Green Sheet.

BOUQUET GREEN & FESTOONING

of all kinds always on hand. In fact anything that grows wild.

HARTFORD & NICHOLS,

18 Chapman Place, BOSTON, MASS.

Regarding the "Problem."

In regard to the article in the *FLORIST* of March 12, headed "A problem," I wish to state my experience with one of these combination concerns.

For several years I had been sending flowers to a firm that is doing both a retail and commission business. The returns had for some time been very unsatisfactory, so last Easter (1890) I concluded to send part of my stuff to another commission man on the same street, some two squares west of the combination concern. The following returns that I received speak for themselves: I sent each one 2,000 daisies, 2,000 alyssum and 500 mignonette. From the combination concern my returns were \$17 and from the commission man the returns were \$27. I wrote to the combination concern asking for an explanation, but am still waiting for a reply.

The only solution to the problem, at present in sight, is to let these combination concerns severely alone.

A GROWER.

A New Use For Flowers.

Under the above heading the *Pittsburg Post* prints the following:

"The fad of one fashionable woman is to wear, not silver clasps on her garters, but roses of the color of her stockings, says an exchange. A gay maiden, who is blessed with a tiny foot, wears flowers at balls, dinners and receptions on her dainty slippers. A bunch of violets on a white satin slipper, and worn with a white gown, is a charming toilet. A pale pink rose on a suede slipper, with a gray and pink gown, is another bewitching toilet worn by this inventive young woman. Lilies of the valley also go well, with their green stems showing. Of course it is best to select a small flower for this purpose, a bud, or half-blown rose, or a small bunch of violets, the latter being more easily managed and more becoming to the foot. But in any case the foot must be small."

Wood for Propagating.

Would like to ask through your paper if roses propagated from blooming wood or shoots are better for winter forcing than those propagated from blind shoots? Have not plants propagated from blind shoots a tendency to bear fewer buds and more blind wood than others? J. F. A.

[This matter has already been very thoroughly discussed and the preponderance of opinion was that there was no difference.—Ed.]

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CATALOGUES. *

I MAKE 'EM, WITH CUTS
AND "KNOW HOW."

J. Horace McFarland,

HARRISBURG, PA.

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FLORISTS
and
SEEDSMEN

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The Aldine Printing Works, Cincinnati, O.
for samples and prices before ordering
elsewhere.

[Mention The American Florist.]

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THE NURSERY BOOK has been prepared with the utmost pains. It embodies the experiences of many experts. The author has been engaged in its preparation for many months and has visited nurseries and men for the particular purpose of acquiring knowledge upon technical points. The whole volume has been read and criticised by Professor B. M. Watson of the Bussey institution, one of the best propagators in this country. All available authorities have been consulted, and particular parts have been submitted to experts. The fruit matter has had the criticism of leading nurserymen, and the head propagator of probably the most important nursery in America has been freely consulted. The orchid matter has been prepared by W. J. Bean of the Kew Royal Gardens. The instructions in the nursery list—which gives the definite methods for each plant—have been read by at least four persons. It is written in a simple, practical style. It contains in compact form about all the knowledge there is on propagation of plants of every kind, hitherto scattered in many books or entirely unwritten. Every florist wants it. About 300 pages; numerous illustrations.

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Pulverized, 100 lb. bag \$3.00; Ton \$40.
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SILVER MEDAL AWARDED

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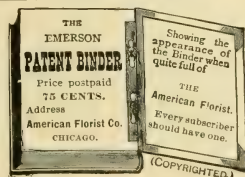
This preparation is a sure destroyer of the **Scale, Woolly Aphis and Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure and Cheap**. No fruit grower or florist should be without it. Send for circulars and price list.

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Keep this motto before you always, and go in for our \$50 prize. Remember you make **big** profits, and in addition to all, you please your customers by selling them

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It makes plants grow and bloom.
It is plant fertilizer in perfection.
\$10.00 per gross; 1-4 gross at the same rate.

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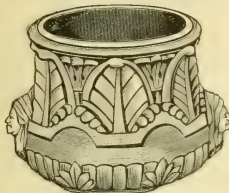
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—AND—

JARDINIERES IN GREAT VARIETY.



NOTE.—Although forced to play a minor part in the Prize Pantomime, we nevertheless produce the best STANDARD POT in the country, and members of the S. A. F. soon found that to get such they must send their orders to

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AHEAD OF EVERYTHING.

We Follow None, Prize or No Prize.

Our latest improvements in machinery produce a Standard Pot which for lightness, smoothness and durability, has never been equalled. Customers buying of us will

SAVE ONE-THIRD IN FREIGHT.

And to prove this, we give below a table showing number in Crate and **WEIGHT** of same, which speaks for itself:

Size.	No. in Crate.	Weight.
1 1/4-in.	3,000	250 lbs.
2	2,400	250 "
2 1/4	1,750	250 "
2 3/4	1,400	250 "
3	1,200	250 "
3 1/2	800	250 "
4	600	250 "

It will be seen at a glance, that our pots are one-third lighter than formerly, and yet we claim that owing to the superior quality of our clay and improved machinery, they are stronger than any put in the market, and we frankly ask you to make the test. **SEND FOR PRICES.**

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OF WATERPROOF PAPER.

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Who furnish samples by mail, postpaid, on receipt of
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2-in.	\$.40	\$3.00
2 1/2-in.	.50	4.00
3-in.	.60	5.00
3 1/2-in.	.80	7.00
4-in.	.90	8.00
5-in.	1.50	14.00
6-in.	2.20	20.00

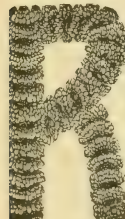
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THE MANY congratulatory letters our Easter number inspired are duly appreciated. We thank all for their kind words and good wishes, and shall endeavor to do still better another time.

YOU CAN give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.



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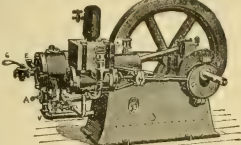
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27 South Street, NEW YORK.
Agents Wanted.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VI.

CHICAGO AND NEW YORK, APRIL 9, 1891.

No. 149.

THE AMERICAN FLORIST

Copyright, 1891, by American Florist Company.
Entered as Second Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY.

54 La Salle Street, CHICAGO.

Society of American Florists.

M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; WM. J. STEWART, of Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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American Ohrysanthemum Society.

JOHN THORPE, Pearl River, N. Y., president;
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THE CHICAGO daily papers again make the now familiar statement that Director-General Davis will organize the horticultural department of the World's Fair next week. "Quien sabe."

SOME of the leading features at the spring exhibition of the Mass. Hort. Society will be illustrated next week.

FULL REPORT of the exhibition of the New York Florists' Club in next week's issue.

WHEN WRITING advertisers please say that you saw the adv. in the AMERICAN FLORIST.



Reports from all Sections.

ORANGE, N. J.—Easter trade was far ahead of last year. The churches made some very fine displays of flowers and plants.

TERRE HAUTE, IND.—Probably 25 per cent better than last year. Never had a better supply. Retail prices same as last year. Nearly all loose flowers—very little made-up work. A very satisfactory Easter.

NASHUA, N. H.—About 30 per cent larger. Supply of home-grown flowers much larger. Retail prices about same. Increase in call for blooming plants. Plenty of flowers. More satisfactory than in previous years.

MADISON, Wis.—Somewhat larger than last year. Supply of home-grown flowers about equal to that at last Easter, but retail prices were a little higher. No change in call for blooming plants. More satisfactory than previous seasons.

PORTLAND, ME.—Larger than last year. Supply of home-grown flowers was larger, quality about the same. Retail prices were about same as last year. The increased call was entirely for loose flowers. More satisfactory than previous Easters.

PROVIDENCE, R. I.—About 25 per cent larger than last year. Supply of home-grown flowers was short but quality good. Retail prices were about 10 per cent higher than last year. Increase in call for loose flowers. The best Easter we ever had.

FT. WAYNE, IND.—Larger. Home-grown flowers first class, but not enough of them. Retail prices about same as last year. can get all we ask for good stuff. Good demand for plants. Increased call for loose flowers. Most satisfactory Easter have had.

MEMPHIS, TENN.—About 25 per cent larger than last Easter. Better supply of home-grown flowers. Some increase in call for blooming plants, especially for Harrisii lilies. Sold more loose flowers than ever before. It was more satisfactory than previous years.

NASHVILLE, TENN.—Much larger than last Easter. Supply of home-grown flow-

ers was short and quality rather poor. Retail prices 25 per cent higher than last year. Decrease in the call for blooming plants. Demand was all for loose flowers. Decidedly best Easter we have had.

QUINCY, ILL.—Easter sales double those of last year. Supply of home-grown flowers was much finer than usual on account of clear weather. Prices just the same as last year. Increase in the call for made-up work for churches. Had all the stuff we wanted. Best Easter we have had.

ATLANTA, GA.—Total sales somewhat larger, though supply of home-grown flowers was not so good as last year. Prices same as last Easter. Sales were all loose flowers. No more satisfactory than in former years. The cold spring rains have been most trying to the florists in this section.

LAWRENCE, KAN.—About 25 per cent larger than last year. Supply of home-grown flowers larger and of better quality than last Easter. Prices about equal to last year. Increased call for blooming plants. More loose flowers sold—but little made-up work. Much more satisfactory than any former Easter.

TORONTO, ONT.—About 30 per cent larger than last year. Supply of home-grown flowers larger and of better quality. Retail prices were about same as last year. Increased call for blooming plants. Sales were nearly all of loose flowers, hardly any call for made-up work. A very satisfactory Easter.

NEWPORT, R. I.—About one third larger than last year. Supply of home-grown flowers was large and of good quality. No change in retail prices from last Easter. More call for blooming plants, especially lilies. Very little made-up work was wanted—sales nearly all loose flowers in boxes. Most satisfactory Easter we have had.

NEW BEDFORD, MASS.—Much larger than ever before. Best Easter we have ever had. Supply of home-grown flowers larger than last year and of finer quality. Prices about same as last year and no change in call for blooming plants. Plenty of stock to be had at fair prices. Didn't have to buy away from home. Big call for Harrisii lilies.

GRAND RAPIDS, MICH.—About 15 per cent increase. Supply of home-grown flowers was larger than last Easter, and retail prices were lower. Increase in the call for blooming plants and for loose flowers over made-up work. Most everything was low in price and the people bought freely. Yes, most satisfactory Easter we have had.

BLOOMINGTON, ILL.—About 10 per cent increase with prices about same as last year. The supply of home-grown flowers

was better than usual, but would have been still larger and better but for the dark and rainy weather during the week before Easter. However, even with this drawback this Easter was more satisfactory than any previous one.

OTTAWA, ONT.—About 20 per cent larger than last year. Supply of home-grown flowers large and of good quality. Retail prices about the same as last year. Increased call for blooming plants. Outside of plants' sales were nearly all of loose flowers. Lost on what flowers were bought. On the whole this Easter was better than previous ones.

NEW HAVEN, CONN.—More in bulk, almost the same in money. Supply of home-grown flowers was larger and better. Retail prices a little lower. Increase in call for blooming plants. More loose flowers, less made-up work. No difficulty in getting all the flowers wanted. Compared with former seasons, buying was much closer but general volume the same.

SALT LAKE CITY, UTAH.—About 20 per cent increase over last Easter, and a better supply of home-grown flowers. Retail prices a little better than last year. Increased call for blooming plants, especially *Lilium Harrisii*. Increase in call for loose flowers as compared with made-up work. Had all the flowers we needed except roses. Much better than any previous Easter.

ROCHESTER, N. Y.—About the same as last Easter. Supply of home-grown flowers rather less than last year, but quality was better. Retail prices were a little lower on many things, but increase in call for blooming plants. Very few set pieces were ordered. With the exception of roses there was a sufficient supply of flowers. Total receipts about equalled those of last Easter.

CLEVELAND.—From 10 to 30 per cent larger than last year. Supply of home-grown flowers was larger and better. Retail prices about the same as last year. Good call for blooming plants. More call for loose flowers, but little made-up work. Carnations were scarce and high priced. Taking everything into consideration this Easter was more satisfactory than any previous one.

INDIANAPOLIS, IND.—About 10 per cent better than last year. Supply of home-grown flowers larger and better. Retail prices about same as last year. Increase in call for loose flowers and blooming plants. Got all the flowers we wanted at fair prices. *Bernuda lilies*, carnations and hyacinths sold better than last year. Violets were slow. Yes, more satisfactory than any previous Easter.

SPRINGFIELD, ILL.—One florist reports sales a little less than last year; supply of home-grown flowers not as good nor as many; retail prices and call for plants both about same as last year; demand was for loose flowers—no designs; could not buy any cut flowers that I could sell at a profit; good plants in bloom sold well; demand for cut roses and other flowers exceeded the supply.

OMAHA, NEB.—Easter trade about the same as last year. We have had more and finer flowers this year than ever before, but the prices were not so good. No noticeable change in demand for blooming plants. Sold more flowers loose this year and not so many pieces. Would have had a much better trade had the weather been fine. It rained and was generally disagreeable here.

MINNEAPOLIS, MINN.—About 30 per cent larger than last year. Retail prices about same as last Easter. The supply of home-grown flowers was larger and generally of better quality. Quite an increase in the call for blooming plants. Call was mostly for loose flowers, but little made-up work. Taking everything into consideration it was decidedly the best Easter we have ever had.

PITTSBURG, PA.—From 25 to 40 per cent larger than last year. Supply of home-grown flowers was nearly double that of last Easter and the quality was better also. Retail prices were about the same as last year except on roses which brought a little better prices. Calls were almost entirely for loose flowers to the exclusion of made-up work. The most satisfactory Easter we ever experienced.

DENVER, COLO.—Two florists report the Easter trade as from 33 to 50 per cent less than last year. The decrease was undoubtedly due to the execrable weather. Snow and hail fell on Saturday and there was a snow storm on Easter Sunday. The supply of home-grown flowers probably equalled that of last Easter, though short on roses. Retail prices were about the same as last year. What call we had was nearly all for loose flowers.

UTICA, N. Y.—About 20 per cent increase over last Easter. Retail prices about same as last year. Increase in call for choice blooming plants. Also increase for loose flowers—made-up work falling off. Supply of home-grown flowers was good. More satisfactory than previous seasons. Buyers are getting much in the bad habit of leaving their orders for Easter stuff to the last day, and the last stragglers are often greatly disappointed—as they deserve to be.

LONDON, ONT.—Sales were larger than last year. The supply of home-grown flowers was also larger and of superior quality. Retail prices about the same as last Easter, or a trifle better. No change in call for blooming plants. All loose flowers—no made-up work. Owing to the earliness of Easter and the bad weather up to the day before, it was almost impossible for us to take out plants. Saturday being fine let us out of the hole to a certain extent.

NEW ORLEANS.—Easter trade about one-third larger than last year. Supply of flowers was very large. Loose flowers are coming more and more into use. Very few blooming plants except bedding stuff. Palms and ferns were used for decorations. Very much more satisfactory than previous seasons because we had an abundance of flowers. Whenever out door flowers are scarce here sales are small as few buyers will pay more than usual rates.

CINCINNATI.—About 20 per cent less than last Easter. Five days of rain cut sales badly. Supply of home-grown flowers was about equal to last year but prices were not as good. In blooming plants lilies and choice stock were more called for. What trade we had came in a rush on Saturday as it was the only dry day in the week. Plenty of flowers were to be had at fair prices. Would have been a good Easter for us if we had been blessed with good weather.

MONTREAL, CAN.—From 30 to 35% larger than last Easter. The supply of home-grown flowers was good, almost meeting the demand. Retail prices about same as last Easter. There was a decided

increase in the calls for loose flowers. Bulbous rooted stuff was rather too plentiful this season, but it has been good except in the case of Dutch hyacinths which have not been up to the average. Taking everything into consideration the Easter trade of 1891 was the best we have had.

BALTIMORE.—A small increase over last Easter. Better quantity and quality of home-grown flowers. Retail prices were considerably lower than last Easter. A great increase in the call for blooming plants. The weather on Friday and Saturday was indescribably bad, weather that the ladies would not venture out in, and retail sales were very small until Saturday night. No more satisfactory than previous seasons, though probably would have been had we had pleasant weather.

PHILADELPHIA.—About 15 per cent larger than last Easter. Increase would have been larger but for the unfavorable weather. Supply of home-grown flowers was very large. Retail prices were same as last Easter except on lilies, which were sold at prices about 30 per cent lower. Increase in call for blooming plants. Most stock was in full supply and to be had at fair prices. Even with the unfavorable weather it was a more satisfactory Easter than previous ones and had pleasant weather prevailed it would have been much more so.

LEAVENWORTH, KAN.—About 20 per cent larger than last Easter. Home-grown flowers were about the same in quantity but of better quality. Prices were generally lower except on lilies. Increased call for blooming plants. More calls for loose flowers and less for made-up work. We can not buy elsewhere and make a profit. The churches seemed to decorate more than usual in the past. Most of the churches here were decorated principally with palms and blooming plants. Taken altogether it was most satisfactory Easter we have had.

DETROIT, MICH.—From 30 to 50 per cent larger than last year. Supply of home-grown flowers compared favorably with that of last Easter. Retail prices ruled about the same as last year. Large increase in the call for blooming plants. One florist reports that such plants as fine roses, rhododendrons, azaleas, hydrangeas and geranias were more in demand than last year. There was plenty of stock on lack of anything. Quite an increase in call for roses and violets. The universal verdict is that it was decidedly the best Easter we have ever had.

RACINE, WIS.—Easter sales considerable more than last year, probably about 20 per cent. Supply of home-grown flowers was larger and quality better than last year with prices a little lower, especially on callas. Large increase in the call for *Harrisii* lilies in pots. Cut flower sales in about same proportions as last year, but little call for made-up work. As satisfactory as any other Easter. Sales of pot plants would have been considerable more if good stock outside of lilies had not been short, the open season having brought other bulbous stuff in too early.

ALBANY, N. Y.—Total sales larger, especially on plants. Increase probably about 10 per cent. Of the supply of home-grown flowers there was not quite so many roses, but twice the usual quantity of violets, carnations and bulbous stuff. Prices were about the same as last year. Increase in call for blooming plants. All the cut flowers were sold loose. The



VARIOUS ORCHIDS.

1. *Calanthe vestita*.2. *Calanthe Regnierii*.3. *Warrea Lidenianna*.

supply of roses was rather short. Among plants azaleas were more in demand than hydrangeas. A great demand for plants averaging in price from 75 cents to \$1. More satisfactory than any previous Easter.

LOUISVILLE, KY.—Much larger than last year, one florist reports his sales to be about double those of last Easter. Supply of home-grown flowers was short, and as many as to be had here as last year. Retail prices were higher, roses selling at from \$2 to \$5 a dozen. A big increase in the call for blooming plants of lilies, hyacinths and geraniums. Proportion of loose flowers sold was about same as last year. Had trouble to get flowers from other cities. Every florist had all the work he could do. Could not fill all orders. The best Easter trade we ever had.

HARRISBURG, PA.—Very little more than last year. Supply of home-grown flowers was larger and of better quality. Retail prices were about same as last year. Increased call for blooming plants, especially for Harrisii lilies and white hyacinths. Increased call for loose flowers. Had difficulty in buying additional supply at prices that would allow a profit. The weather interfered with sales. By Saturday noon we had two feet of snow and this interfered with our hauling out plants, making delivery so difficult that it was impossible to fill all orders for decorating.

DAVENPORT, IOWA.—From 10 to 25 per cent larger than last Easter. Supply of home-grown flowers larger and better. Retail prices fully as good as last year and in many cases buyers did not hesitate to pay extra good prices for really fine stock. Large increase in call for blooming plants, especially for Harrisii lilies. Hardly any made-up work, call being almost entirely for loose flowers on long stems. Owing to the many orders for funeral work prior to Easter the supply of lilies and white carnations was rather short. Taking everything into consideration it was our most satisfactory Easter.

ST. PAUL.—About the same as last Easter. Supply of home-grown flowers compared favorably with last year considering the coldness of the date. Retail prices about same as last Easter. Probably not quite so many plants sold owing mainly to the bad weather. No made-up work—all loose flowers. Had plenty of flowers with the exception of hybrid roses and fancy carnations. On account of bad weather and miserable roads the Easter trade was hardly as satisfactory as in former years. The churches did not seem to decorate as generally as in former years and when they did, they wanted former prices discounted a good deal.

HAMILTON, ONT.—About 20 per cent larger than last year with greatly increased demand for first class stock. Supply of home-grown flowers compared favorably with last year as to roses, valley and bulbous stock, but Harrisii were hardly up to the mark. Retail prices about same as last Easter. Increased call for well flowered plants. Increased demand for loose flowers and less call for made-up work. There was a decided increase in the demand for palms and fine foliage plants for church decoration by all denominations. Yes. Perfectly satisfied with the Easter trade of 1891.

WILMINGTON, DEL.—One florist reports Easter trade as about the same as last

year and another as less. One reports supply of home-grown flowers as not so good as last year and another as about as good on most stock and better on quality. Retail prices were about the same as last Easter. One noticed an increase in call for blooming plants and another did not. The weather was very unfavorable. It snowed all day Friday and nearly all day Saturday. Had it not been for the unfavorable weather believe this Easter would have been most satisfactory one we have had as demand was good even under the adverse circumstances.

KANSAS CITY, Mo.—Much larger than last year, increase of from 20 to 50 per cent. Supply of home-grown flowers was larger and of better quality than at last Easter. Increased call for blooming plants. Further increase in call for loose flowers, very little for made-up work. The weather was very unfavorable all the week prior to Easter. It rained half the week and the remainder was cloudy, but in spite of these drawbacks the supply was large and quality good. People have all along been complaining about hard times, yet March 28 and 29 the demand for flowers and plants was enormous. Most satisfactory Easter we have had.

SPRINGFIELD, MASS.—Much larger than ever before, average of increase probably not less than 50 per cent. The supply of home-grown flowers was very large and the quality excellent. Retail prices lower than last year. Increased call for blooming plants and still further increase in call for loose flowers. But very few designs ordered. Boxes of choice flowers for gifts were in brisk demand and off-quality flowers or plants were not wanted. There was not enough Harrisii lilies to supply the demand and the stock of carnations was early exhausted. Blooming plants and palms were all sold out with the exception of a few azaleas. Competition among the retailers was sharp and prices were cut pretty close.

BUFFALO, N. Y.—From 25 to 30 per cent larger than last Easter. Supply of home-grown flowers was large and of good quality. Retail prices were quite as good as last year and a trifle firmer. Quite an increase in the call for good blooming plants, any quantity of choice plants could have been sold. A still further increase in call for loose flowers while the demand for made-up work has dropped to almost nothing. We had unusually favorable weather Saturday and Sunday. Taken altogether this was the most satisfactory Easter we have had here. Our experience this year has taught us that we ought to grow more and finer plants. Also that we can not depend on Eastern dealers on such occasions as their local demand takes all they have to sell.

RICHMOND, VA.—An increase of fully 25 per cent. The supply of home-grown flowers was large and of better quality than last year. Retail prices were a trifle lower on cut flowers and about the same on plants as last Easter. Increased call for blooming plants in general, though one florist noted a falling off in the demand for astilbe. The same florist noted an increased call for blooming plants arranged in baskets. In cut flowers buyers called for them loose—but very little made-up work. While it was more satisfactory than any previous Easter the trade would have been larger but for the bad weather. The week before Easter we had rain, hail, snow and wind. Still

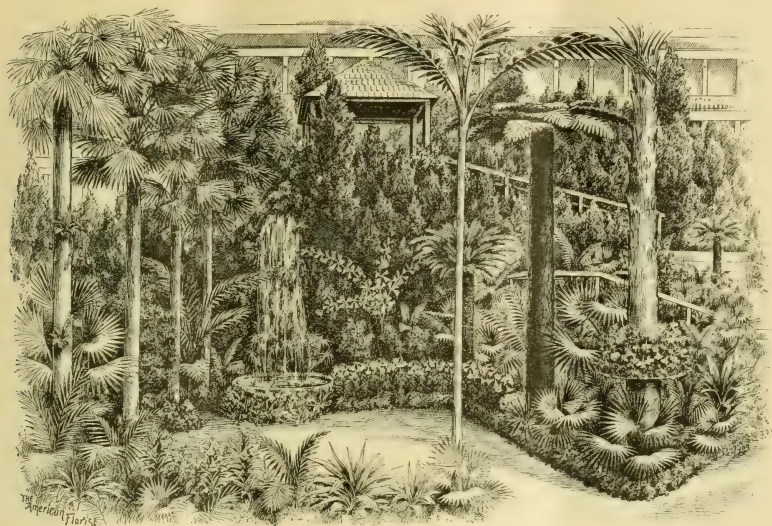
the business on Saturday was the largest ever known here in spite of the rain which fell all day.

DES MOINES, IOWA.—The demand was immense, but as we didn't have the flowers were unable to fill our orders. Cloudy weather for nearly a month preceding Easter cut the supply exceedingly short. Some report sales as about equal to last year and others as less. One reports a decrease of 25 per cent in sales. But this was all due to the unfavorable weather and consequent short supply. Retail prices were about the same as last Easter. Perles and Niphetos retailed at \$1.20 a dozen, Mermets and La France \$1.50, carnations 50 cents, lilies 15 to 25 cents each. Demand was mainly for loose flowers in boxes, but little design or basket work. No increase in call for blooming plants, in fact some report a decrease. This was, however, undoubtedly due to the miserable weather. Large increase in the call for violets. The demand was satisfactory, but as we couldn't meet it we got no benefit from it.

MILWAUKEE, WIS.—An increase of from 5 to 25 per cent over last Easter. Regarding the supply of home-grown flowers one florist reports it as better in quality and larger in quantity and another as not so good as formerly and flowers scarce. Retail prices were about the same as last year. Increased call for loose flowers as against made-up work. One florist reports a decrease in the call for blooming plants, while another says, "As the supply of good plants was exhausted early we think the plant trade would have shown a large increase if we had had the plants to sell." The supply of flowers was decidedly short of the demand and could not buy to make up the shortage. The main rush comes in now during the last three days, which we used to take orders weeks ahead. However, taking everything into consideration, this Easter was the most satisfactory one we have had.

ST. LOUIS.—Larger than last year. Increase varied from 10 to 90 per cent with the various florists. One reports sales as nearly double those of last year, trade beginning four or five days in advance. One reports the supply of home-grown flowers as not so large as last year, while another reports the home supply as "Much better quality; all home-grown this year; last year bought about 25 per cent; this year sold considerable to the trade." One reports retail prices as about same as last year and another as much lower on everything but roses, which were a little higher. Unanimous regarding an increased call for blooming plants. Also unanimous as to increased call for loose flowers as against made-up work. So far as can be learned all depended upon the home supply. The dark weather that preceded Easter made roses scarce and a little off-color. Some report a largely increased call for spring flowers such as tulips, hyacinths, daffodils, etc. Taking every thing into consideration it was the most satisfactory Easter we have had.

EVANSVILLE, IND.—Total sales from 20 to 25 per cent larger than last year at about the same prices. The supply of home-grown flowers was larger than last year and the quality was good as a rule. There was an increased call for blooming plants, especially for Harrisii lilies. Cut flowers were nearly all sold loose, but little demand for made-up work. We could buy nothing at other



A CORNER AT THE RECENT EXHIBITION AT MADISON SQUARE GARDEN, NEW YORK.

points that could be shipped and reach us on time. One florist placed orders a week ahead for roses and carnations, but the commission man could not get hold of the stock in time to reach this city by Saturday. No doubt the demand would have been much larger but for the miserable weather. The week preceding Easter was one of almost constant rain and up to Friday afternoon there were but few Easter orders received, and as a consequence we were compelled to force a week's sales within two days. The commission men could promise us nothing as the growers for some reason—good or imaginary—would neither sell anything or give any information as to what the supply would be. Such a state of affairs makes one more determined than ever to be independent of them, and when his own stock is exhausted quit selling and let the excess demand remain unsatisfied.

Boston.

There has been plenty of activity in the cut flower trade since Easter. There are a great many fine roses in the market, especially hybrids and Jacqs, which are bringing good figures and selling well. Carnations are somewhat scarce and bring almost as much as at Easter. Of smilex there is but little obtainable and that is poor, but there is an abundance of *Asparagus plumosa* which is more than a substitute for it.

The new crop of *Adiantum* fronds is now in, and they are abundant again. Pansies are good, in fact the general supply of them seems to improve in quality every year. Violets are still with us, but there are indications that the end is ap-

proaching. Lily of the valley, tulips and narcissus in sorts are obtainable in any quantity. Spring weather having settled down in earnest, the street fakirs are swarming, and it is surprising to note the enormous quantities of flowers they manage to work off in a few hours.

There is a rumor of a new wholesale commission house about to be established in the city.

Mr. S. J. Coleman, who has been foreman and general manager for Mr. C. J. Power, of South Framingham, for the past ten or twelve years, is leaving him to take a similar position with Mr. J. M. Galvin. Mr. Coleman has the reputation of having raised the finest chrysanthemum blooms ever seen in Boston, and he has also made a steady success in the culture and sale of bulbous flowers. Mr. George Stevenson succeeds him at the Powers establishment.

On Saturday, April 11, Col. Henry W. Wilson will lecture before the Massachusetts Horticultural Society on the "Horticulture and vegetation of the Bahama Islands." The committee on revision of by-laws of the Horticultural Society reported at the quarterly meeting, April 4. There were two reports, the majority report making no material changes from the original by-laws excepting the introduction of the Australian ballot system of voting at annual elections, and the minority report recommending further that the secretary and treasurer be elected by the society instead of being appointed by the executive committee as at present. The majority report was passed to its second reading, and in accordance with the rules lay over till the July meeting for final action.

W. J. S.

Philadelphia.

When one considers the weather the Easter business here was good, very good. There were but two clear days, and these in the early part of the week. Thursday it was cold and chilly, Friday it rained all day, turning to snow at night, and Saturday there was from three to six inches of snow on the ground; it finally cleared off about noon, and then the people made the last grand rally, and when the field was looked over Sunday morning there was really very little salable stuff left.

The storm interfered to a considerable extent with the "speak easies." There were quite a number of these places set up like side shows to the circus, hoping to catch the stragglers when the big show was full, but the weather was "agin em," and less than wholesale rates prevailed before the day was over.

It was the general opinion that more plants were grown and sold this year than ever before. Lilies were very plentiful, yet all good ones were sold. Hydrangeas, while very fine, did not seem to strike the fancy as usual, and quite a number were left over. Good pot roses were very scarce the bad weather keeping them back. Of daffodils and tulips, a number in 6-inch pots sold very well. Robt. Craig had a fine stock of this kind of stuff and sold entirely out.

Easter lilies were sold for less this year than ever before. With the advent of the *Harrisii* they dropped from 50 cents to 35 cents per flower, which price prevailed until this season, when they fell to 25 cents and the "speak easies" asked from 15 to 20 cents. Growers say there is no money in raising lilies at less than

15 cents a flower. We believe this to be true, and when they attempt to sell at this price and deliver (as some of them do) one pot at a time, they will find still less for their trouble. The extra price for delivering plants at this busy season is a very large item in the expense account, and in the magnificent distances of this large city it sometimes amounts to the profit on the sale.

Smilax is very scarce at this time, and can hardly be said to have been in full supply at any time this season. Jacqs are becoming plentiful, and wholesale from 10 to 15 cents.

Anderson has a house of Brunners and Laings just in; he did very well, as they were in great demand. Laings brought 40 and Brunners 60 cents.

Business since Easter has been fairly good, and quite a number of entertainments are on for next week.

Theodore Roehrs and Mr. Keller of Brooklyn paid a flying visit to this city a few days ago.

Mr. Charles Meehan, now with John Barton, is about to start in business for himself. He is laying out ground, and intends to erect three large houses the coming summer.

New York.

Easter trade was very good. Notwithstanding the unfavorable weather during the week, which greatly impaired the prospects and made buyers cautious, there was a good all-around business. Saturday was fair, and Sunday was an ideal Easter day, a Godsend to many a poor florist.

All kinds of flowers were plentiful and brought a good average price. Roses were fine, and just enough for the demand. Tulips and hyacinths were not quite as good as in preceding years. Jonquils and narcissus were fine and sold well. Valley and violets were also fine and in good demand. But Harrisii! Heavens, what a hit! Never before were so many cut lilies seen as on this Easter. They were everywhere in abundance.

There was also a good plant trade. Easter is unlike Christmas or New Year's in this respect. The business is divided between cut flowers and plants, with a tendency towards the latter. Whatever longiflorums were to be had were very poor, but Harrisii were in good condition. There were many thousands of Harrisii blooms shipped here to private families from Bermuda which greatly interfered with the sale of local grown flowers.

Hydrangeas were not quite as good as those of previous years. Azaleas were very fine, some new varieties being very beautiful and acquisitions in color.

Dutch hyacinths were poor this year; the growers say the bulbs were very soft when imported. Genistas were very fine. Roses in pots were somewhat a failure. There was quite a number of rhododendrons around, but the azaleas overshadowed them. If the scattered displays could have been gathered together in some great building it would have been a glorious sight; as it was each store made a beautiful display, in many cases additional stores being hired to accommodate the increasing trade of some of our florists. Violet plants in bloom was a pretty little novelty and sold readily at a dollar each.

Of course cut flowers being on the average very fine and reasonable in price, interfered very much with the sale of plants, and where "plunging" had been resorted to there was considerable left on

hand. It is estimated that 90,000 violets were sold at Easter in twelve of the principal stores here.

Of course, speaking of New York, it must be understood to include Brooklyn. The ties between the two are made of iron, and John Weir lives half his time here. There is a very large flower trade done in Brooklyn and Mr. Weir does an enormous trade. Messrs. Phillips, Burges, Mallon, Wiperman and the rest report having done a very large business.

In New York the reports vary, but some people are born grumbling, and taking fully into consideration their principal characteristics in life, we can reasonably suppose they will die so. Some have done a bit on Easter trade than they have ever done, others have done their usual and some say they did a poor business. Of course much depends on reputation. Taking all in all it was a very good Easter for the business.

Whatever plants were left were used in decorating the Seventh Regiment armory on Tuesday last. There was a regular convention of florists held in the building on that occasion, and never before was seen so many florists decorating one building. There was great fun and great competition. It was looked upon as a preliminary to the coming show. Each company had its own florist. There were ten of the principal florists of the city engaged to do the work and every style and class of decorating was shown. Each company's room was turned into a flower garden, and many beautiful decorations were shown. It was amusing to see how the soldier boys caught on to their valry and went around judging.

Easter is gone, but our exhibition is coming, and everything talked about turns that way. There are a good many entries in many of the classes, and the competition will be very warm. Every foot of ground is taken and it cannot be otherwise than the finest show ever given here. Both retailers and growers are well represented and the private conservatories of the state will exhibit for the first time in public their rarities.

Mr. James Davis, for many years with Klunder, will decorate the hall for the club in a manner consistent with the occasion. Mr. Davis is responsible for the news that there will be a couple of "Floral geyers" on Broadway next season.

March 22 was visiting day amongst the florists. Every plant grower within a radius of twenty miles of New York kept open house for the reception of buyers from the city; it was harvest day for the growers. It was a miserable day, the cold rain came down incessantly, but notwithstanding all this a large party of the retail florists of the city visited Bay Ridge, the home of the azalea, genista and hydrangea.

Mr. Weir's little village of glass was first visited. Here the party was received by Mr. Fred Weir, who kindly conducted us through the vast ranges of glass which were filled with plants in excellent condition. Mr. Weir first took us through the finest house of *Asparagus plumosa* any of the party had ever seen. It is a forest of beautiful green vines ranging from five to eight feet in height. Next was a house of fine specimen azaleas effectively staged on the center bench with many hundreds of fine Dutch hyacinths on the side benches. From this we were led to a beautiful scene, a house of *Portia carnations* in full bloom; these were planted in the spring and grown under glass all summer. "They have done remarkably well," said Mr. Weir, and in-

deed they looked fine. We counted as many as 150 buds on some of the plants. Next came a house of *heliotrope* consisting of all the leading varieties. A house full of callas with many hundreds of fine blooms was a pretty Easter picture. Another house filled with many thousands of *Lilium Harrisii* blooms made a magnificent display. Mr. Weir said he expected to sell fifteen to twenty thousand lilies at Easter in his stores. Houses of hydrangeas, genistas, spiraeas and jonquils looked very fine. And a great feature was the immense palms, some of which were in large tubs five feet below the surface. There was one gigantic *Pandanus* utilis one foot through the trunk. Houses of tall *Ficus elastica* and fine specimens of *Kentia Belmoreana* were in fine condition. There are twenty-six large houses devoted to the cultivation of flowers and decorative plants to partially meet the requirements of Mr. Weir's enormous trade.

A short distance from this is Mr. Dean's fine range of glass. Here we were met by the famous and ever genial grower, who conducted us through his magnificent exhibition. This place has been so well described in recent issues of the *Florist* that anything further would be superfluous.

There were several other places to visit, but the day was fast drawing to a close, leaving but sufficient time to pay our respects to Mr. Keller, who also has an extensive place devoted to the growing of cut flowers and blooming plants. There we found some handsome specimen azaleas, notably *Judica alba*, *Belle Grindois*, *Comtesse de Lamdre*, *Queen of Holland*, etc., some of which were five feet in diameter and covered with bloom. Houses of *Baroness Rothschild*, *Magna Charta*, *Mme. de Watteville*, etc., were looking remarkably well.

Flowering plants never were so fine before. We reluctantly left Bay Ridge, paying but little attention to the inclement weather, knowing only that one of the grandest treats is a visit to the famous plant houses of Bay Ridge on Palm Sunday.

JOHN YOUNG.

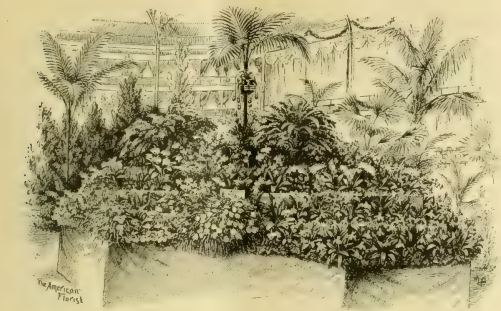
Prize Group of Orchids.

The illustration shows the group of orchids entered by Mr. Kimball, of Rochester, at the recent exhibition at Madison Square garden, N. Y., projected by Siebrecht & Wadley. This was the prize collection. There were three more of these large mounds in the center of the garden, and together they made a handsome central attraction. The orchids were of various kinds, banded up on a stand with steps, and with a palm and ferns at the top.

Will it be the Same in 1893?

"The beautiful ferns, palms and other rare plants exhibited by me, such as New Jersey, in a side room of the horticultural building at the Centennial exhibition, Philadelphia, was the one redeeming feature among the contents of that great structure. This was unfortunate as it misrepresented the condition of American horticulture besides being a severe criticism on the patriotism of American horticulturists."

I came across these words in Robinson's work on ferns and they emphasize the necessity of taking care that horticulture does not share the same ill not a worse fate in Chicago in 1893 than it did in Philadelphia in 1876. What have the



PRIZE GROUP OF ORCHIDS

associations of florists, nurserymen and seedsmen done to avert this imminent danger? Can they consolidate on this question and make themselves the center round which all who have the welfare of horticulture at heart might gather—bringing the opinions of the leaders in horticulture into proper focus for shedding effective light on the powers that be?

G. C. W.

Spring Exhibition of the Mass. Horticultural Society.

The annual spring exhibition opened at Horticultural Hall, Boston, on Tuesday March 31, continuing for four days.

On account of the abundant material for brilliant massing this show has always received much popular favor. With the exception of the last day of the exhibition the weather has been exceedingly favorable, and this fortunate circumstance together with the many novel attractions offered, has sufficed to bring out a most gratifying attendance.

The extensive groups and solid plateaus of hyacinths and other spring flowering bulbs which were seen at the spring exhibitions of a few years ago, and which were brought out mainly by the medals formerly offered by the Bulb Union of Holland for this class of exhibits, were missing, but in all other respects the exhibition of the present season was equal to the best of its predecessors.

There were entries enough to fairly fill both of the society's halls without overcrowding. The entire center of the lower hall was occupied by two splendid groups of hardy spring flowering plants from the Bussey Institution and Harvard Botanic Garden. The collection from the Bussey Institution arranged by Chas. J. Dawson, while from the center of the group there was the most beautiful feature of the exhibition, and was altogether one of the most artistic arrangements ever seen in the hall. Crocuses, violets, anemones, scillas, hepaticas, primroses, trilliums, aquilegias and other pretty spring blooming herbaceous plants nestled in little colonies among the rocks and mosses and looked as natural and contented as though they had always grown there, while from the center of the group there sprang in luxuriant masses and delicate sprays, dicentras, solomon's seal, etc., with andromedas, spiraeas and various other spring blooming shrubs.

Around this hall on the tables most of the cut flowers were shown, while on the stage was arranged a fine display of conifers from W. C. Strong, among which were specially noticeable a large number of shapely specimens of *Sciadopitys verticillata*.

The exhibition of cut roses was not very large for the very good reason that exhibitors are required to keep these in good condition for four days, and the premiums offered are so much out of proportion to the value of such flowers that growers who exhibit in this class must do so at a pecuniary loss. But those that were shown were very fine specimens, and the continuous crowd in the vicinity of this section was a good indication of the strong hold which the Queen of Flowers still maintains on the public favor. A vase of Ulrich Brunner from C. V. Whitten was remarkably fine, as were also Cornelia Cook, Madame Hoste, Catherine Mermet and Bride. A certificate of merit for superior culture was awarded for the Brunners. Thos. H. Meade took a number of first premiums with vases of superb Mermets, Brides and Duchess of Albany. Some good specimens of Baroness Rothschild and Capt. Christie were staged by W. H. Elliott, who also made a handsome chandelier decoration with *Asparagus plumosus*. There were no specially new roses shown with the exception of James Comley's "Oakmont," which received a first class certificate of merit, and Augustine Guinoisseau from W. H. Spooner. This latter rose is also known as the White La France, but it is far from white.

There was quite an extensive display of carnations. First prize for general collection went to C. Southworth, closely followed by R. T. Lombard as second. Mr. Lombard showed the new yellow carnation Golden Triumph, grown by John H. Pond, and was awarded a first class certificate of merit for the same. Among the carnations which were noticeably well grown were Mrs. Elliott, Hector, Mrs. Fisher, May Queen, L. L. Lamborn, Jeannette, Ferd Mangold, Orient and Florence. Seedlings were shown by Joseph Talley, Geo. Seaverns and C. Southworth. Mr. Southworth showed Nellie Lewis, which he claims sported with him from J. J. Harrison at about the same time it made its appearance in various other parts of the country. From J. C. Chambers came Grace

Darling, which has never been shown here before, and received honorable mention. The Grace Wilders and Mrs. Fishers exhibited by Jas. Tulis have never been excelled.

A unique collection of cut flowers was staged by Harvard Botanic Garden, K. R. Cameron gardener, among which were many curious and interesting things. One of the prettiest was *Alpinia nutans*, bearing a beautiful pendent raceme of delicate pink tipped buds, which when open display an odd looking, fragrant, orange and scarlet corolla.

The upper hall was devoted mainly to the azaleas, orchids and spring flowering bulbs. The stage was well filled with a display of evergreens from Temple & Beard, in which were some good specimens of *Araucaria imbricata* and Irish Yews.

The most extensive collection in the hall, and which was grouped with grand effect was that of Dr. C. E. Weld, Kenneth Finlayson gardener; 23 prize cards—17 firsts, 7 seconds and 1 third—will give some idea of the size and merit of this group, which included numerous specimen plants of acacias, azaleas, cinerarias, cyclamens and primulas, besides a superb collection of hyacinths, tulips, narcissus, freesias and other bulbous plants. Among the best plants here were an *Erica Cavendishii*, which received first prize for specimen greenhouse plant, and *Indigofera tinctoria*.

The first premium for collection of orchids was well won by E. W. Gilmore. The gardener, Thos. Greaves, deserves especial credit for turning out such a superb stand of orchids with the limited resources at his command, for his houses are not large and make no pretensions to comparison with some of our more ambitious orchid establishments. There were remarkably well bloomed plants of *Dendrobium Freemanii*, *Jamesianum* and noble, *Cattleya Trianae*, *Odontoglossum Alexandræ triumphans*, *Rosii majus* and luteo-purpureum, *phalaenopsis*, in several species and the beautiful little *Oncidium concolor*.

Benj. Grey showed 50 varieties of dendrobium flowers, several of which were quite distinct and valuable.

The best grown plants in the hall were two specimens of *Dendrobium nobile* shown by Mrs. Durant, Ed. Butler, gardener. These plants were very large and full, very symmetrical and were simply masses of bloom. Several superb specimen azaleas were also shown by Mrs. Durant. A particularly fine one was Jean Verschaffelt.

For three orchids both first and second premiums were taken by N. T. Kidder, Wm. Martin gardener. Among the best plants in this collection were *Dendrobium Farmerii*, a large pan of *Cypripedium villosum* and an unusually brilliant variety of *Lycaste Skinnerii*. The azaleas from Mr. Kidder were skillfully trained and well bloomed. There was a large general collection of plants from the Bussey Institution, including some fine ranunculuses, hardy lilies, etc. To this display was awarded first premium for collection of spring flowering bulbs, also first for four hardy shrubs in flower. The shrubs shown were *Pyrus baccata*, *Viburnum plicatum*, Mountain Laurel and double flowering almond. A pretty, profuse flowering greenhouse climber, *Rhodochiton volubile* from this exhibitor attracted much attention as a novelty.

The customary fire contribution was made by John L. Gardner, C. M. Atkinson gardener, including a grand mass of shrubs, orchids and spring flowering

bulbs, and many premiums were won in the different classes. First prize for four hard wooded greenhouse plants was awarded to *Boronia megastigma*, *Boronia heterophylla*, *Chlorizema ickitilium* and *Enostemon intermedius*. These were all very finely grown plants, as were also the specimens of *Eriostemon densifolius* and *Andromeda japonica*. The entire hall was scented by the delightful fragrance of *Boronia megastigma*, which was noticeable even above the heavy odors of hyacinths and jonquils. Among the orchids in Mr. Gardner's exhibit was a particularly good *Dendrobium Wardianum*.

The group of plants from A. W. Spencer, Robt. Blair gardener, was well arranged and contained some well grown specimens of azaleas, rhododendrons and hydrangeas. First prize for four azaleas was awarded here.

Other large assorted displays came from J. S. Fay, W. S. Ewell & Son and Mrs. E. M. Gill, and Norton Bros. showed some good anthuriums and orchids. A collection of azaleas comprising 50 distinct varieties was shown by F. B. Hayes, James Comley gardener.

H. H. Hunnewell, F. L. Harris gardener, showed a number of well bloomed imantophyllums and a 12-inch pot of amaryllis bearing fully 50 expanded flowers. Rea Bros. had a dozen varieties of *Primula Sieboldii*, and W. C. Winter some good auriculas.

No plant excited more admiration than a beautiful specimen of *Cypripedium spectabile* bearing fourteen spikes of flowers, grown by Jackson Dawson.

Mrs. McKee, daughter of President Harrison, honored the exhibition with a visit, and among the other interested visitors from a distance were Mr. W. A. Manda, of Short Hills, N. J., Mr. E. V. Low and Mr. Alfred Outram, of London, England. WM. J. STEWART.

Long Island Notes.

BY WM. FALCONER.

SHIRLEY DARE as a GARDENER (see New York Herald, March 15).—"The luxury of life possible to a scientific gardener within a few hours of any good town is beyond that of any man not a millionaire. * * * There is hardly a town of 2,500 inhabitants in this country where a clever gardener could not by fifteen years of well directed work make himself the richest man of the place. * * * On every side we see the solid, stable fortunes made by men in horticulture who began as poor boys with their hands only, and had to work out their own training. To-day the work is more of a science. Yet pretty indeed, and very encouraging. But Shirley Dare omits to mention the name of any of these smart gardeners who have made "solid, stable fortunes" in this business. True, Peter Henderson was a millionaire and made every penny of it himself, but he had enormous, executive business ability. Very few men in the business are gifted as he was and not very many are amassing fortunes in it. But on every hand the money-making class are the men more noted for executive ability and business capacity than for scientific or practical attainments.

AMATEURS VS. FLORISTS.—A good many florists complain that amateurs get hold of wholesale lists and endeavor to get goods at wholesale rates, and if they cannot do it as individuals, they will get up clubs and secure the reduction in this way. True, this is aggravating, but we have no jurisdiction in the matter. We

cannot prevent the amateur from buying whatever he wants from whom and where he pleases, and at the very lowest rates possible. We do the very same thing ourselves in the case of glass, coal, etc. And while we can avoid, so far as we know, sending wholesale lists to amateurs, or selling to them at wholesale rates, we cannot prevent these lists from falling into their hands nor them from seeking the benefits of the wholesale rates. But we can discountenance it and use our influence against it.

BIG MIGNONETTE.—Mr. Eugene Baile-douze, of Flatbush, brought me half a dozen sprays of his mignonette the other day, and they were the most massive I have ever seen. The sprays were cut 14 inches long, and the racemes of blossoms were 8 to 10 inches in length; the flowers are white with reddish brown anthers, extra large, tufted with green foliaceous bracts, and set very close together, and the first raceme was 6 inches in circumference. It is exceedingly fragrant. The six sprays together weighed exactly eight ounces. Like all other winter mignonette, now-a-days it had been disbudbed to the one terminal spike.

CLEMATIS DAVIDIANA.—A year or more ago I sent some plants of this hardy border plant to Mr. George Savage, of Rochester. I met him at the orchid show in New York the other day, and he told me: "They grew splendidly, but I can't see any beauty in them; in fact, so far as beauty is concerned I would most asssoon have a stinging nettle in my garden! No, no, George, I will not side with you in this matter."



Deciduous Calanthes.

These will now have started and should be at once shaken out of pots and carefully looked over. Thoroughly clean of all traces of scale or mealy bug. Use clean pots and plenty of drainage, over which place a little clean sphagnum. The best material for potting is good fibrous loam mixed with a few broken potsherds and a little broken charcoal and some small rough bits of old cow manure about the size of pens. Fine soil is often injurious by its washing down into the drainage.

As growth advances give a careful watering with weak cow manure water once or twice a week. As soon as the blooming period is over, the leaves have fallen and the bulbs are ripe, carefully withhold water and store them on a shelf or bench in a temperature of 55° to 60° till season of rest is over and they again show signs of starting to grow. Be careful that they receive no drip or water during their period of rest.

WM. MATTHEWS.

Orchid Pests.

I will answer Germantown p. 616 by another question. How are woodlice a pest to orchids?

I am aware of the popular belief that they eat the roots, etc., of orchids, but I have never yet been able to catch them at it.

I have personally handled some 500 suspended specimens continuously for

some six years, and in every instance where an injury has occurred to roots, or flower shoots, I have found slugs hidden in the cylinders. Woodlice may or may not have been present. If they alone were there I never found any injury.

I use two pounds of soap and two tablespoonsful of kerosene boiled slowly together in a gallon of water until the soap is perfectly dissolved and the oil blended. This amount poured boiling hot into twenty gallons of water I use as a "dip" for all orchids, and it materially checks all scale except the Japan scale and the white cattleya scale. Slugs, worms and woodlice get to the surface in a great hurry when the plants are immersed and are then killed. I have not found a better plan, but hope to hear of one.

I would be especially glad to hear of some proportion of soap and kerosene that will certainly cook the varieties of scale I have mentioned without also cooking the plants.

Trenton, N. J. JAMES MACPHERSON.

Plants Available for Bedding.

There evidently being in some localities a growth of opinion in favor of greater diversity in bedding, there will undoubtedly be a demand felt for plants suitable for this purpose, and for that matter such a demand may be encouraged by the judicious use of some of the said plants in attractively arranged beds in the front of a florist's establishment.

These home displays, as they may be termed, are certainly beneficial, for they not only show that a man takes some little pride in his surroundings, but they also help to induce others to try to do likewise, and in this way do more to encourage a demand than the most elaborate catalogue description can do. It will of course be understood that nothing derogatory toward catalogue advertising is intended in the foregoing remark, and for that matter the value of that method of encouraging business is too well known to need defence in these columns.

But to return to our subject, there are several very handsome plants that are well-suited for this purpose found in the ficus, prominent among which are *F. elastica*, *F. Chauvieri*, *F. macrophylla* and *F. macrocarpa*.

The first-mentioned species, *F. elastica*, needs no description here, and *F. Chauvieri* may be briefly described as bearing some resemblance to the former, though having somewhat thinner leaves and more prominent veins. This species has been in cultivation for many years, but does not seem to have attained great popularity.

Ficus macrophylla, sometimes termed the Australian Banyan, is a strong growing member of this extensive genus, and produces large foliage of dark green color and having rather prominent veins.

F. macrocarpa is a smaller grower than what we might term the typical ficus of florists, *F. elastica*, but makes a compact much-branched plant with dark green somewhat ovate leaves that are about four to six inches long and broad in proportion. Another advantage possessed by *F. macrocarpa* is that it roots very readily and without any tonguing or mossing, as is frequently practiced with *F. elastica*.

Another elegant plant for large beds is *Cyperus papyrus*, the papyrus plant of the Nile, which throws up its graceful heads of narrow leaflets to a height of eight to ten feet. It should be remembered, however, that this plant is prac-

tically an aquatic, and unless planted in very moist ground requires frequent watering.

Cyperus alternifolius and also its variegated form are both good bedding plants, and are much more dwarf in habit than the preceding. The variegated form referred to can only be propagated by division or by cutting, these rooting readily in water, as in a tank or other water vessel in a warm house, while *C. papyrus* and *C. alternifolius* may be easily obtained from seeds, the seedling plants being more shapely than those obtained by division.

The various forms of New Zealand flax or phormium are also valuable outdoors, their sword-like, almost upright leaves giving a pleasing variety of habit when seen in a foliage bed.

Among these the typical New Zealand flax, *Phormium tenax*, is a good one to begin with, its leaves reaching a length of five or six feet under favorable circumstances, and are of dark green color with brownish margins.

P. tenax variegatum is also highly ornamental, the leaves being more or less striped with yellow, while *P. tenax* Veitchianum is probably the handsomest of all, though of smaller growth than the preceding, the leaves being narrower than those of the type, and are beautifully variegated with stripes of creamy white.

P. Cookianum variegatum (also known as *P. Colensoi* var.) is another good form, and bears a certain resemblance to the last named, but is not quite so well variegated.

Bambusa metake is also a valuable plant for mixed borders, and has the additional recommendation of being perfectly hardy, at least in this latitude, for near here it is not only hardy but evergreen too. It has bright green leaves of lanceolate form and six or eight inches in length, and the habit of the plant is rather compact and branching, though very graceful. *Bambusa metake* may be propagated by division or by seeds when the latter are obtainable.

The acalyphas are another useful group of ornamental foliage plants suitable for bedding and are apparently gaining in favor each season.

Of these *A. muscica* is one of the best, and presents a variety of bright coloring in its marbled leaves of various shades of bronze and crimson.

A. marginata is also good, the leaves being large and the color varying from olive to bronze, with a yellowish margin.

A. Macfleckana is another fine sort and has very large foliage, the latter being chiefly of various shades of red and crimson.

The acalyphas can be almost as readily propagated as coleus, and flourish under similar conditions, and will doubtless be very largely used by their merits become better understood. W. H. TAPLIN.

Philadelphia.

SAN FRANCISCO.—The Florists' Club of California has been organized with officers as follows: President, Emory E. Smith; Vice-President, P. J. Keller; Recording Secretary, M. H. Wilkins; Financial Secretary, C. W. Shaw; Treasurer, C. H. Baker; Directors, A. Carbone, D. Westcott, F. Shiley and H. McGowan. The club starts out with a membership of 44.

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Montreal.

The spring exhibition of the Montreal Gardeners' and Florists' Club was a very beautiful display and an advance upon the club's previous efforts. A very fine collection of orchids was shown by Hon. J. J. C. Abbott, and to it was awarded the silver cup given by Pitcher & Manda of Short Hills, N. J. First prizes were awarded to Wm. Wilshe, gardener to Hon. J. J. C. Abbott, for 12stovegreenhouse plants, 12 orchids and 3 orchids; to Joseph Bennett for 12 pots flowering bulbs, 6 pots tulips, 3 single and 3 double, 12 pots tulips, 3 pots narcissus, 3 pots lily of the valley, 3 Spirea japonica, 6 roses Mermet, 6 The Bride, 6 Perle des Jardins, 6 Niphetos and 6 roses any other variety; to J. Bland for 18 hyacinths in at least 12 varieties, 6 Lilium Harrisii, 3 Dentzia gracilis and specimen Dentzia gracilis; to John Doyle for 3 Primula sinensis, 3 Primula obconica, specimen hydrangea and 3 special prizes for roses; to P. McKenna & Son for specimen azalea, 6 roses American Beauty, 12 red carnations, 12 white carnations and 12 pink carnations; to W. J. Horsman for 3 pots callias, 3 hydrangeas, and 3 specials for mignonette, primulas, polyanthus and cyclamens; to Wm. Bell, gardener to Mr. Robert Mackay, for specimen orchids, specimen imantophyllum and hanging basket of ferns; to J. Walsh for 6 table plants; to J. Kirkwood for 3 Lilium Harrisii and special for 3 calceolarias; to Jules Betrix, gardener to Mr. Andrew Allan, for 3 amaryllis; Mr. Betrix and Wm. Bell divided the honors of first on collection of flowering plants and bulbs the judges considering their collections of equal merit in this class 2nd went to J. Kirkwood, 3d to Joseph Bennett and specials were recommended to be awarded to J. Bland and P. McKenna & Son. Specials were also awarded to A. Pineau for 6 plants Lilium Harrisii, and to Geo. Trussell for tri-color geraniums and 3 pot roses.

At the annual meeting of the club officers for the ensuing term were elected as follows: President, Mr. James McKenna, 1st Vice-President, Mr. J. Walsh, 2d Vice-President, George Trussell; Treasurer, Mr. J. Dunbar (re-elected); Secretary, Mr. Walter Wilshe (re-elected); Assistant Secretary, Mr. J. Johnson; Corresponding Secretary, Mr. Joseph Bennett; Executive Committee, Messrs. John Eddy, J. Bland, W. Wilshe, William Whiting, William Evans, Jr. The reports presented were all of a satisfactory character.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

LIZZIE MCGOWAN

AND OTHER CHOICE CARNATIONS.

ADDRESS **H. E. CHITTY,**
— PATERSON, N. J.

Carnation Cuttings.

30,000 L. L. LAMBORN.
10,000 GRACE WILDER.
10,000 PORTIA.

Special prices on large lots.
WM. SWAYNE,
P. O. Box 226. KENNETT SQUARE, PA.
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LAMBORN AND
OTHER CARNATIONS.
Rooted cuttings and Plants now ready.
J. J. STYER, Concordville, Pa.

ROOTED CUTTINGS.

CARNATIONS AND COLEUS.

20,000 MRS. FISHER ready the early part of April; other sorts later on. Send for prices on what you need. I shall continue to propagate until May 1st.
COLEUS in assortment. All the best bedders at \$5.00 per 1000. Golden Bedder and Verchaffeltii if ordered alone, at \$7.00 per 1000.

Fuchsias and Petunias in Limited Quantity. Choice Sorts.

SMILAX.

This is one of my Spring specialties and is gotten up in first class shape, at \$6 per 1000. Samples i.e. **CANNA EHEMANNI** and **EMILE LECLAIRE**. I am selling these at \$5.00 per 100 to clean them out—they will not last long at the price.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

Mention American Florist.

CARNATIONS.

Silver Spray, Fred. Creighton, Golden Gate, Fair Rosamond, J. R. Freeman, Hector, Mrs. Fisher, Wm. F. Dreer, Chastity, Tidal Wave, Grace Wilder, L. L. Lamborn, Constance, Edelweiss, Emile Louise Taplin, Angels, Louise Forsch, Nellie Bly, Dorothy, Day Break, Nellie Lewis, and sixty other leading varieties. 100,000 ready now. Send for Price List, and secure your stock.

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We have one of the finest and largest stocks of Verbenas in the country, entirely free of

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Microscopic examination shows no trace of the verbenia mite.

Our collection of sixty varieties contains the

Finest Old and New Varieties

fully as healthy as seedlings, and beyond comparison in color and habit. We are able to root 30,000 to 50,000 per week and can fill all orders in a reasonable time.

Plants. Rooted Cuttings. per 100, \$2.50; per 1000, \$20.00; 5,000, \$90.00.
\$1.00; \$8.00; \$35.00.
THE FOLLOWING UNSOLICITED TESTIMONIALS WERE RECEIVED IN FIRST MAIL TO-DAY, FEB. 20th:
BUFFALO, N. Y., Feb. 19th.—Received verbenas. They were very satisfactory. Thanks for good count and prompt shipping.
CANTON, O., Feb. 18th.—Received verbenas in good condition except Crystal (red). All the others are splendid.
ALEXANDRIA, VA., Feb. 19th.—The plants arrived yesterday in good condition. Thanks to you for your promptness and liberality.
SEND FOR PRICE LIST.

J. L. DILLON, Bloomsburg, Pa.

VERBENAS.

PERFECTLY FREE FROM RUST.

30 vars. new seedlings, Mammoth strain, per 100 \$3; per 1000 \$25.
Rooted cuttings of same, 100 \$1; 1000 \$9.
Fine stock Heliotrope, 3½-inch, \$3 per 100.
Primroses, double, per 100 \$12.00.
" single, per 100 \$8.00.
Geraniums—latest Novelties.
Latania borbonica, 5-inch \$4.00, 4-inch \$3.00 per dozen.
Miscellaneous stock of all kinds.

ROSES.

Mad. Hoste, La France \$5.00 per 100.
Duchess of Albany \$7.00 per 100.
Gontiers, Perles, Mermets, Bon Silences, Brides, Niphetos and 50 varieties of monthly roses, \$4.00 per 100 or \$35 per 1000.
H. F.'s purchaser's choice, \$6.00 per 100 or \$50.00 per 1000.
H. F.'s, our choice, \$5 per 100 or \$40 per 1000.

GEO. W. MILLER.

1748 N. Halsted St., CHICAGO.
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CARNATIONS. ROOTED CUTTINGS

Of New and Old varieties at the lowest price possible to secure good stock from healthy plants. Seventy-five thousand will be ready by Feb. 1st. Send for catalogue or price list.

SEND ORDERS EARLY.
ISAAC LARKIN, Toughkenamon, Pa.

Carnation Cuttings.

Boxed off and well established. Send for Price List.

DE WITT BROS.,

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VERBENAS.

— NOW READY. —

	Per 100	Per 1000
General Collection 2½-inch pots.....	\$3.00	\$25.00
XX Mammoth Set.....	4.00	30.00
Bedder and Verchaffeltii.....	1.25	10.00
General Collection.....	1.00	8.00
COLEUS Golden Verchaffeltii, Golden Bedder and Verchaffeltii.....	1.25	10.00
And 25 other best sorts.....	1.00	8.00
Heliotrope, Rooted Cuttings, named.....	1.25	10.00
Calceolarias.....	1.00	8.00
Agerium.....	1.25	10.00
Salvia Splendens.....	1.25	10.00
Fuchsias.....	1.25	10.00
Lavender, The Gem, Rooted Cuttings.....	2.00	15.00
Begonias Kuba, Metallica, etc.....	2.00	15.00
Lesion Verbena, strong, 1 year old, dor.....	8.00	75.00
Vincas, strong, 1 year old.....	8.00	75.00
Ampelepos Vetchill, strong plants.....	8.00	75.00
City sautheum varieties and prices on application.....		
ROSES, extra fine plants, Perles, Mermets, Bride, Mme. Cusin, Mme. de Watville, S. D'un Ami, Niphetos, Sanet, La France, Coq, Gontier, Bon Silences, Safrano.....	2½-inch pots 3.00	45.00
Duchess of Albany.....	10.00	
Mme. Hoste and souv. de Wootton.....	6.00	
Trade List of Florists Stock Free.....		

WOOD BROTHERS,

(Successors to L. C. WOOD & BRO.) FISHKILL, N. Y.
Mention American Florist.

SURPLUS VERBENAS.

SPEAK QUICK! THIS OFFER FOR TWO WEEKS ONLY.

2½-inch pots, - \$2 per 100; \$15 per 1000
Rooted Cuttings, 75c. per 100; \$7 per 1000

Address **J. G. Burrow,**
FISHKILL, N. Y.

CARNATIONS, standard sorts..... \$3.00
DAHLIAS, choice, selected..... 8.00
BOUVARDIAS, best kinds..... 3.00
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ROSES.

To florists desiring large Roses for spring sales in the most popular varieties we can not recommend the following list too highly. Our stock is extra strong from 5-inch pots—field grown and Plants are larger than those usually sold from 5-inch pots. We offer the following from 5-inch pots at \$25 per 100; 25 sold at 100 rates.

ETOILE DE LYON, DUCHESS DE BRABANT, HERMOSA, THE GEM, QUEENS SCARLET, MME. JOS. SCHWARTZ, LA FRANCE, CAT. MEKENT, MME. SCHWALLER, LOUIS PHILIPPE, MALMAISON, COQUETTE DE LYON.

We have a limited number of the following from 6-inch pots at \$35 per 100: HERMOSA, ETOILE DE LYON, MADAME ETIENNE, THE GEM, QUEENS SCARLET, DUCHESS DE BRABANT.

DUCHESS OF ALBANY, 5-inch at \$25; 4-inch at \$15; 2½-inch at \$5 per 100.

ROSES FOR FORCING.

We have an immense stock of young healthy Roses for forcing made from growing wood.

PERLE DES JARDINS, PAPA MONTIER, LA FRANCE, CAT. MEKENT, THE BRIDE, NIPHELOS.

Price from 2½-inch pots \$5.00 per 100, 3-inch pots \$10.00 per 100. All the standard bedding Roses at \$5 per 100, \$40 per 1000. Send in your list to be priced.

ROBT. SCOTT & SON,

19th and Catherine Sts., PHILADELPHIA, PA.

ROSE Clothilde Souper, unquestionably the best pot rose in existence and profitable for cut flowers as well. There is more money in this plant for the retail trade than any other known variety. We are headquarters for it.

J. C. VAUGHAN, CHICAGO.

ROSES.

All the best varieties for forcing, and also for bedding out, in 2 and 2½-inch pots, \$4.50 per 100; \$40.00 per 1000. Own selection, \$35.00 per 1000. Roses in 3, 4 and 5-inch pots at lowest rates. Also greenhouse and bedding plants.

Price list free on application.

ADDRESS **A. LAUER,**
1210 E. Broadway, LOUISVILLE, KY.

DAISY SNOWFLAKE

Daisy Snowflake—This Daisy, if treated like Vinetia, will give splendid returns for all labor bestowed upon it. I grow it by the thousands and cannot supply the demand for cut flowers, as it keeps fresh from 2 to 3 weeks after being cut, and then looks as fresh as other white flowers just cut. The flowers are borne on stock long stems, fine white and beautifully quilled, and average as large as a 30 cent piece; a great acquisition to florists.

Price, \$1 per doz. Free by mail; \$5 per 100 by express. **SEE WHAT F. J. KELLER SAYS ABOUT THIS DAISY:**

ROCHESTER, Jan. 28th.
Daisy Snowflake is quite a useful flower both for floral designs and put in with other great ones, and when tied up in small bunches they sell very rapidly with us for funeral designs. We are a great buyer in plants of carnations as it is cheaper and covers almost the same space, and keeps fresh considerably longer. Be sure and send me every trial! You can cut, as I cannot get them fast enough for my customers. They say it is the best cut flower to buy because it keeps fresh for 2 to 3 weeks. I feel I cannot say too much in favor of this useful Daisy.
Yours truly,
F. J. KELLER.

MISSION RIDGE GREENHOUSES,
CHATTANOOGA, TENN., March 1st, '91.
FRED SCHNEIDER, DEAR SIR:—We received our Daisies yesterday, and I believe they are! Enclosed please find our check for \$5.00 for 100 more plants. Please send them as soon as you can; we want to get them to blooming well before Easter. We can supply the cut flowers and at what price? They ship so excellently that we would like to get some for immediate use.

Very resp't **MAC GOWAN & COOK,**
P. S. We add to our remittance; please send its value in Cut Flowers of the Daisies we are present.

FRED SCHNEIDER, Wholesale Florist,
Wyothing Co., ATTICA, NEW YORK.

Rooted Cuttings of Carnations

In great quantity, ready now.

Also 25,000 PEARL TUBEROSE BULBS
1st size at \$7.00 per 1000.
2d size at \$5.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

Waban Rose

READY MAY 15.

From 2½-inch Pots.		From 4-inch Pots.	
1 Plant, \$1.00.	250 Plants, \$70.00.	1 Plant, \$1.50.	50 Plants, \$10.00.
12 Plants, 3.00.	500 Plants, 125.00.	17 Plants, 15.00.	100 Plants, 75.00.
50 Plants, 39.00.	1000 Plants, 350.00.	25 Plants, 25.00.	
100 Plants, 50.00.			

The following Agents have been appointed to sell the Rose in the respective territories given below:

WM. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th and Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

EUROPEAN AGENTS: **WM. PAUL & SON, Waltham Cross, England.**

ROSES. * ROSES.

WABAN, SOUVENIR DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other NEW and Standard Varieties of TEAS: Hybrid Remontant, in cluding HEINRICH SCHULTHEIS, which is by far the best early forcing Hybrid This is the variety which MR. JULIUS ROHRHS has forced so successfully for the past three years. Also all the best varieties of

HYBRID TEAS, CHINAS and BOURBONS.

For forcing, bedding, etc., etc., all of which I have an EXTRA fine stock now ready for shipping at prices as low as any one can produce such stock for. NEW PRICE LIST TO THE TRADE NOW READY.

JOHN N. MAY,

SUMMIT, - - - NEW JERSEY.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants, Catalogue of Prices Now Ready.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street, - - - SAN FRANCISCO, CAL.

Rooted Cuttings Carnations.

We offer **EDELWEISS**, a pure white sport of Chester Pride for the first time this season, at \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. Shelmire,
AVONDALE, PA.

COLEUS.

ROOTED CUTTINGS Now Ready.

In all the leading varieties at 75 cents per 100; \$6.00 per 1000.

MRS. S. P. CUSHING, Weymouth, Mass.

IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best regular to the florist. Blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

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Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
 Inch, \$1.00; Column, \$4.00;
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No Special Position Guaranteed.

Discounts, 6 lines, 5 per cent; 13 lines, 10 per cent;
 20 lines, 15 per cent; 27 lines, 20 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

April 14, Los Angeles, Cal.—Rose show Southern California Hort. Society.

April 16-17, Syracuse, N. Y.—Spring exhibition Central New York Hort. Society.

April 22-23, Baltimore.—Spring show Gardeners' Club of Baltimore.

May 6-8, San Francisco.—Annual flower show California State Floral Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society.

November —, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society.

As WILL be seen by the reports we publish in this issue the Easter Trade of 1891 has been generally more satisfactory than our former one. In nearly every case the demand for blooming plants and for loose flowers is still on the increase, showing that the tide of popular favor is setting still more strongly in this direction. The increased sales in spite of the very unfavorable weather that prevailed in many sections shows a remarkable extension of the demand and indicates that there is but little possibility of a falling off in Easter sales in the near future so long as stock can be supplied at fair prices.

A HALF-DOZEN Jacques received from Mr. N. Singler, Washington Heights, Ill., are the best specimens of this rose we have ever seen. The blooms are very large and of good color and are on very long stems dressed with most magnificent foliage. The leaves average 3½ x 2½ inches and several exceed 4 inches in length. He also sends us a bunch of Silver Spray carnations, and the blooms are of excellent quality.

News Notes.

GERMANTOWN, PA.—George Laughlin, the florist, died March 28.

DENVER, COLO.—Aug. Schenkel has removed from 810 16th Street to 1635 Arapahoe Street.

DOVER, N. H.—The greenhouses of Harry Johnson were badly damaged and the stock ruined by fire on the night of April 2.

KALAMAZOO, MICH.—Mr. T. S. Cobb, late of the cemetery greenhouses here, died at Rock Lodge, Fla., March 22, aged 72 years.

TOLEDO, O.—George A. Heint entirely refitted and refurnished his store recently and made a beautiful display the week prior to Easter.

MINNEAPOLIS, MINN.—The regular meeting of the Minneapolis Florists' Club will be held at the West Hotel, Saturday April 11, at 8 p. m.

UTICA, N. Y.—At the meeting of the Florists' Club April 1, the Executive Committee was directed to make arrangements for a fall exhibition.

LOS ANGELES, CAL.—The name of the Southern California Floral Society has been changed to Southern California Horticultural Society. At the meeting held March 23 an essay on roses was read by C. E. Brydges.

INDIANAPOLIS, IND.—Jens Larsen, a well known florist, having an establishment on Twenty-third street, died March 25. This is the second florist Indianapolis has lost this year. Wm. Bertermann, of Bertermann Bros., is in California, where he will remain for a few months.

HARRISBURG.—McClintock & Opperman succeeded L. E. McClintock last July. Last summer they bought the greenhouses on Jos. Schmidt's place, previously rented by Mr. McClintock, and moved the buildings to a new location on Cameron Street, where they now have five large houses. They are built on the side of a hill which has a grade of 18 feet to the 100 feet, one house running along the ends of the others, connecting them together. The houses are heated by steam in 1-inch pipes from a 25 horse-power boiler. They intend building two more houses the coming summer. The new address is 1023 South Cameron Street.

Steam Heating

I have read the replies in regard to southern floriculture, and I desire to add my mite to the discussion and endeavor to gain a point or two in favor of steam heating. Thus far I have read but one article in favor of steam (by Mr. Geo. Himm, Atlanta, Ga.), all the others being in favor of hot water. I think that it is an injustice if the merits of steam

heating are not duly considered before its superiority is denied. I admit that I may be a trifle biased in my opinions, but I also wish to say that I have had no personal or actual experience with hot water and that I only speak of what I know and withhold all suppositions and theories. I don't think that any one can make any comparisons unless they do so from actual experience in handling the two systems of heating under very similar conditions, so I will only refer to the merits of steam heating. It may be that steam is more expensive and more wasteful in fuel in a warm climate than it would be further north, and that for this reason hot water would be better, but still I believe that steam is the best, taking into consideration all conditions of climate, etc.

To begin with, all low pressure steam boilers are fitted with automatic dampers which represents the saving of a considerable quantity of fuel. When heat is required it does not necessitate heating such a large body of water and the opening of a valve allows the steam to circulate through the pipes, and automatic air valves allow the air which may have collected in the pipes to escape, and thus insures a complete circulation. It is more convenient and easier to regulate the temperature in a house that is piped with several 1½-inch pipes than it is in a house with only a few 2 or 4-inch pipes, especially in late spring and early fall. If there is a sudden rise in the temperature the valves can be closed and in a few minutes radiation ceases. The work of fitting and piping a house is not nearly so laborious, as I know from experience that it does not require as much muscle to cut and thread a 1½-inch pipe as does a 2 or 3-inch pipe. If all pipes are placed in position so that there is a continuous down grade in the entire piping of a house, and care is taken to keep all return pipes above the water line in the boiler, and also to have an automatic air valve at the lowest point of each pipe or set of pipes, there is no reason why steam heating should fail to give entire satisfaction. In my opinion steam is unapproachable in any climate or under any condition where prompt, effective work is required.

Railway, N. J. JOHN W. SALING.

THE AMERICAN FLORIST CO.'S

TRADE MARK

DIRECTORY

OF { FLORISTS,
 NURSERYMEN,
 SEEDSMEN,

OF THE

UNITED STATES AND CANADA,

1890.

No one in the Trade can afford to be without it.

PRICE, \$2.00.

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E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO.
(Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS.

27 Washing'on Street, CHICAGO.
All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

A. L. RANDALL, (SUCCESSOR TO)

C. H. FISK,
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.

E. J. HARMS, Wholesale Dealer in

CUT FLOWERS,
And Florists' Supplies.
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese,

Wholesale Cut Flowers,
66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
given to shipping orders.

CUT FLOWERS.

The Western Trade Solicited.

Write or Telegraph.

SMITH FLORAL CO.
77 7th Street S. - Minneapolis, Minn.

C. STRAUSS & Co.

GROWERS OF CUT FLOWERS.
— WHOLESALE ONLY. —
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

Cape Jasmines.

About April 21th we will be prepared to ship CAPE JASMINE and MAGNOLIA BUDS in large quantities to any point in the North safely. Also Gray Moss, Magnolia Foliage, Cut Ferns and a variety of other evergreen plants Magnolia seedlings and plants in any size. When you have a big decoration it will pay you to correspond with us. Prices on application. Give us a trial.

FT. WORTH NURSERY, SEED AND CANNING CO.
910 Main Street, DALLAS, TEXAS.

CUT SMILAX.

I make a specialty of Smilax, and am prepared to fill orders promptly. Price 30 cents per string till May 1st. Quality A. 1. JOSEPH E. BONSALE,
Telephone No. 15. 308 Garfield Ave., Salem, Ohio.

CATALOGUES. *

I MAKE 'EM, WITH CUTS
AND "KNOW HOW."

J. Horace McFarland,
HARRISBURG, PA.

@ Wholesale Markets.

Cut Flowers.

BOSTON, April 6.	
Roses, La France, Jacobs	10 00 @ 15 00
" Bon Silene	1 50 @ 2 50
" Niphetos, Gontiers	3 00 @ 4 00
" Wootton	6 00 @ 8 00
" Hermets, Brider	8 00 @ 10 00
" Perles, Sunsets	4 00 @ 5 00
" Hybrids	1 00 @ 2 00
Carnations	1 50 @ 2 50
Violets	20
Valley	4 00
Tulips, daffodils	3 00 @ 4 00
Smilax	1 00 @ 1 50
Adiantum	50 00
Apparatus	10 00 @ 15 00
Succisa, callas	4 00 @ 5 00
Candium	2 00 @ 3 00
Succisa	2 00 @ 3 00
Myosotis, mugonnette	2 00
Heliotrope	1 50
Parosies	50
Stocks	2 00
originals \$5.00 and upwards per box	

NEW YORK, April 6.	
Roses, Beauties	10 00 @ 20 00
" Hybrids	5 00 @ 10 00
" Bon Silene	2 00 @ 3 00
" Gontiers, Niphetos	2 00 @ 4 00
" Hermets, Brider	6 00
" Vallevilles, Canins	4 50
" Hostes	5 00
" La France, Albany	8 00 @ 10 00
Valley	2 00
Tulips	3 00 @ 4 00
Daffodils	1 00
Carnations	1 00 @ 1 50
Smilax	1 00 @ 1 50

PHILADELPHIA, April 6.	
Roses, Beauties	20 00 @ 40 00
" Hybrids	10 00
" La France, Albany	8 00 @ 10 00
" Laines, L'epies	25 00 @ 35 00
" Hermets, Brider	8 00 @ 10 00
" Wootton, Bennetts	4 00 @ 5 00
" Perles, Niphetos	4 00 @ 5 00
" Usins, Wattevelles	6 00 @ 8 00
Carnations long	2 00
" short	1 00 @ 1 50
Valley	10 00
Harris, long	10 00
Tulips	3 00 @ 5 00
Daffodils	5 00
Adiantum	1 00
No smilax in the market.	

CHICAGO, April 8.	
Roses, Bon Silene	4 00 @ 5 00
" Perles, Niphetos	4 00 @ 5 00
" Hermets	6 00 @ 10 00
" Brider	10 00 @ 12 00
" Beauties	5 00 @ 6 00
" Gontiers	2 00 @ 3 00
" Bennetts	4 00 @ 5 00
" La France	8 00 @ 10 00
" Jacobs	12 00 @ 15 00
" Albany	10 00
Carnations, short	1 00 @ 2 00
" long	2 00 @ 3 00
Carnations, long, fancy	3 00 @ 4 00
Valley	4 00 @ 5 00
Callas	10 00 @ 15 00
Harris	15 00 @ 20 00
Candium, short	1 00 @ 2 00
" long	2 00 @ 3 00
Adiantum, long	2 00 @ 3 00
Bouvardia	1 50 @ 2 00
Tulips	4 00 @ 5 00
Daffodils	4 00 @ 5 00
Dutch hyacinths	2 00 @ 3 00
Smilax	20 00 @ 25 00
Adiantum	1 25 @ 1 50

WM. J. STEWART,

Cut Flowers & Florists' Supplies

— WHOLESALE. —

67 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & Co.

Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.



TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and Requisites. These are the best at the lowest prices. PRICE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,
NEW YORK.

LILY OF THE VALLEY,
And the Choicest ROSES for the
fall and winter season.
Mention American Florist.

W. S. ALLEN, Wholesale Dealer in Cut Flowers

36 EAST 23rd STREET, NEW YORK.
(ESTABLISHED 1877.)
Price List sent upon application.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS,

No. 32 W. 30TH ST., NEW YORK.
Orders to be shipped will receive prompt attention.

FRANK D. HUNTER, WHOLESALE DEALER IN CUT FLOWERS

51 West 30th St., NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST

53 WEST 30TH STREET,
NEW YORK.

A. S. Burns. J. I. Raynor.

BURNS & RAYNOR, WHOLESALE FLORISTS,

11 West 28th St.,
NEW YORK.

J. M. McCULLOUGH'S SONS,

Wholesale Commission Dealers in
CUT FLOWERS

134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES:

ROSES, CARNATIONS AND ORCHIDS.

LaRoche & Stahl,

Florists and Commission Merchants

— OF —

CUT FLOWERS,

1237 Chestnut Street, - PHILADELPHIA.

Consignments Solicited. Special attention paid to shipping. Mention AMERICAN FLORIST.

ELLISON & KUEHN, — WHOLESALE —

FLORISTS,
1122 PINE STREET,
ST. LOUIS, MO.

WHOLESALE CUT FLOWERS AND
FLORISTS' SUPPLIES.

THE WISCONSIN FLOWER EXCHANGE.
138 Mason Street, MILWAUKEE, WIS.

® Re Seed ® Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president. JOHN FORTRESS, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

A Favorable Decision.

FREE ENTRY—FORCING PLANTS, CAMELIAS, AZALEAS, AND LAPAGERIAS.

Before the U. S. General Appraisers at New York, February 4, 1891.

In the matter of the protest, 274b, of G. Kiesling, against the decision of the collector of customs at Savannah, Ga., as to the rate and amount of duties chargeable on certain camellias, azaleas, etc., imported per Russia, via New York.

Opinion by SHARRETT'S, General Appraiser.

The importation consists of camellias, azaleas, and lapagerias, which the collector reports "are intended for nursery stock, the importer being a nurseryman and gardener." Duty was therefore assessed upon the plants at 20 per cent. ad valorem, under paragraph 282 of the act of October 1, 1890. The importer claims that the plants are of a kind generally "used for forcing under glass for cut flowers," and are therefore exempt from duty under paragraph 666.

The plants being of a kind chiefly used in the manner and for the purposes described in paragraph 666, the fact that they can be grown to a limited extent in the open ground in certain localities does not change the result. It would be manifestly impossible to determine the intended use of each individual plant, and it would not be proper to classify the same plants differently at the several ports in accordance with the varied temperature of the country. It is sufficient that the plants in question are of kinds chiefly grown under glass, and this appears to be the case. In fact, azaleas, which form a portion of the importation, are specifically enumerated in paragraph 666.

The claim of the importer is accordingly sustained.

[The above decision supplied us by our correspondent R. C. indicates a very fair intention on the part of the General Board of Appraisers. We hope they will keep on in the line of work indicated above.—ED.]

It is reported that a bill will be presented to the Illinois legislature making it a criminal offense to plant shade trees in winter with bare roots.

INDIANAPOLIS.—F. C. Huntington has returned home much improved in health after a stay of four months at Thomasville, Ga.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

FLOWER SEED.

CHOICEST STRAINS FOR FLORISTS.

1891 trade list now ready, and mailed free on application.

AUGUST RÖLKER & SONS,

136 West 24th Street,
NEW YORK, STATION E.

G. J. MOFFATT,

Manufacturer of

SEED BAGS

ENVELOPES OF ALL KINDS.

Printing a Specialty.

NEW HAVEN, CONN.

Samples and prices on application. When writing for prices, please state sizes and quantity wanted.

Z. DE FOREST ELY & Co.,

WHOLESALE

Seed Growers and Merchants.

Carry one of the most complete and extensive stocks of **GARDEN SEEDS** in the United States. We make a specialty of **GROWING PEAS** and **BEANS**, **AMERICAN TURNIP** and **CABBAGE SEEDS**, **ONION SETS** and **PURE SEED POTATOES**. We cater to the jobbing trade. **WRITE FOR PRICES.**

✱ **NOW READY.** ✱

	Per 100	Per 1000
TUBEROSES, DOUBLE PEARL		
Fine Large Bulbs.....	\$1 00	\$ 7 50
GLADIOLUS, FINE MIXED	1 25	10 00
EXTRA CHOICE	1 75	15 00
SHAKESPEARE	7 50	

Also Importers of

Bulbs for Florists.

Dutch and Roman Hyacinths, Tulips, Narcissus and True Bermuda Lilies, (L. Harrieti.) Special import offer for Fall and Summer of 1891 **NOW READY.** Do not fail to write for it. Liberal terms, fair prices, selected quality and square business treatment. Address

Z. DE FOREST ELY & CO.,

1301 and 1303 Market Street, PHILADELPHIA, PA.

and 246 North Broad St.

P. O. BOX 1176.

Registered Cable Address, DeForest, Phila.

TELEPHONE 1298.

Mention American Florist.

IMPORTANT TO ALL FLORISTS.

Our new trade list of 50 pages and our descriptive catalogue of 100 pages is now being mailed to you. Should you not receive a copy within a few days, notify us and we will send you one.

Without any desire to brag we assure you we have the largest and best collection of Chrysanthemums in the country.

All stock is bloomed before propagated from. Our list contains over 600 varieties. We also publish a list of synonyms in our catalog.

Pamphlet of "Summer Flowering Bulbs" 20 pages mailed on application. Price \$3 per 100. Our name does not appear in the pamphlet, therefore it is highly valuable for those having a counter trade. Our list of dormant bulbs is the largest and finest of any in the country.

We have so much of interest to florists and others in our catalog that we cannot begin to mention any.

Blanche Ferry Sweet Pea, proved of great value last year as a cut flower. We have a large stock of fresh seed at 10 cents per oz.; \$1.00 per lb.

You will bear in mind we told you last year that Chrysanthemum V. H. Hallock was a good one. You will hear from this later on. We also recommended Charity and White Cap on our last years set as being particularly valuable for florists' use. Prices in quantity on application.

V. H. HALLOCK & SON,

QUEENS, N. Y.

✱ **L. AURATUM,** ✱

✱ **L. RUBRUM,** ✱

✱ **SPIDER LILIES,** ✱

LARGE
STOCK
SOUND
BULBS.
CLOSE
PRICES.

"Book for Florists." J. C. VAUGHAN, CHICAGO.

W. W. Barnard & Co.,
6 & 8 North Clark Street, CHICAGO.

SEEDS, BULBS, IMPLEMENTS.

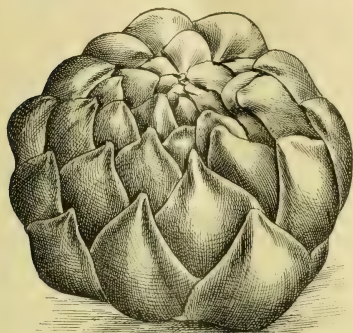
Please write us if you fail to receive our trade list for Florists. Illustrated Seed Catalogue mailed free to any address.

Do you want the BEST SEEDS?

If so, send to

SCHLEGEL & FOTTLER,
Growers and Importers,
BOSTON, - - MASS.

THE LARGEST AND FINEST LILIUM AURATUM BULBS



EVER IMPORTED. We have
ONLY 100 CASES LEFT

of our importation of 500 CASES of

LILIUM AURATUM OR GOLDEN JAPAN LILIES.

These Bulbs range from 10 to 14 inches in Circumference.

They are the **FINEST** lot that has ever arrived in this country. They are packed in soil—EACH CASE CONTAINING 50 BULBS, and will keep perfectly sound until June.

PRICE PER CASE, \$6.00.

5 Cases at \$5.75.	10 Cases at \$5.50.
25 Cases at \$5.25.	50 Cases at \$5.00.

ALSO 25 CASES LEFT OF ASSORTED VARIETIES AS FOLLOWS:

12 Liliium Auratum.	6 Liliium Tigrinum Flore Pleno.
6 " Elegans.	6 " Elegans Flore Semi Pleno.
4 " Speciosum Album.	6 Liliium Speciosum Rubrum.
6 " Batemanii.	6 " Tigrinum Splendens.

AT \$7.50 PER CASE, OR FIVE CASES AT \$7.00.

Also 50,000 DOUBLE PEARL TUBEROSES

Ranging in size from 4 to 7 inches in circumference, at \$7.00 PER 1,000.

Also 10,000 Caladium Esculentum—or Elephant's Ear—Bulbs.

Fine large size Bulbs, ranging from 11 to 16 inches in circumference, and weighing from 1 to 4 lbs. each.

Price, \$8.00 to \$15.00 PER 100, according to size.

ROBERT BUIST, JR., Importer and Cgrow of Seeds, Philadelphia, Pa.
WAREHOUSES No. 922 & 924 Market St.,

LILY OF THE VALLEY!

TRUE BERLIN PIPS.

3 yrs old, dormant, warranted in perfectly sound condition.

Price per original case of 2,500 pips, \$34;
per 10,000, \$90; per 1,000, \$10;
per 100, \$1.50.

Order now, as stock is limited.

TERMS CASH.

A full line of Summer flowering Bulbs, Seeds, Plants and Florists' Supplies, furnished at lowest market prices.)

Catalogues free to applicants. Address,
J. A. DE VEER,
18 BURLING SLIP, NEW YORK.

C. H. JOOSTEN,

3 Coenties Slip, - NEW YORK,
—IMPORTER OF—

Bulbs and Plants.

PRICES ON APPLICATION.

LILY OF THE VALLEY

Very Strong Flowering Pips.

Offers for the AUTUMN, in LARGE QUANTITY.

JULIUS HANSEN. Pinneberg, Germany.

LILY OF THE VALLEY NURSERY.

Large Silver Medal, Berlin, 1890. Bronze Medal, Hamburg, 1890.

CLEMATIS.

Large flowering, in 10 fine varieties, at \$3.00 and \$1.00 per dozen. The latter fine, healthy, home grown stock. Splendid roots.

CYCLAMENS—giganteum and l'escusum, strong plants, in bud and bloom, at very low prices, quality considered, \$1.00 per dozen; \$7.00 per 100.

YOUNG H. P. ROSES, from 2½-inch pots for nurserymen, suitable for planting out. Choice assortment, \$5.00 per 100; \$45.00 per 1,000.

F. A. BALLER, BLOOMINGTON, ILL.

SYNDICATE

—OF—

BULB GROWERS,

Ollioules, var. France.

SPECIAL CROP OF White Roman Hyacinths, AND OTHER FRENCH BULBS.

R. VAN DER SCHOOT & SON,
HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES
OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale Importers should write us for prices.

FRAGARIA INDICA, L. INDIAN BERRY of Upper India, handsome flower and fruit. Excellent for permanent rockwork. Hardy. 50 cts. per dozen; \$5.00 per hundred.

THOMAS J. OBERLIN, Sinking Spring, Pa.

SPECIAL LOW PRICE Lilium Harrisii and Longiflorum Bulbs

Having just returned from a trip to the Bermudas where I went to have a good look after the Easter Lilies, and having made arrangement with the largest growers of those beautiful bulbs for a large quantity of their crop, we are now able to offer good, healthy and pure bulbs—June and July delivery, at the low rate of:

4 to 5-inch circum.	Per 1000	\$ 35.00
5 to 7-inch "		45.00
7 to 9-inch "		70.00
9 to 11-inch "		115.00

LILIUM LONGIFLORUM same price and sizes as above. Delivery in August. Please order before May and oblige. Yours respectfully,

HULSEBOSCH BROS.,

P. O. Box 3118. NEW YORK CITY.

Chicago.

Mr. A. E. Whittle of Albany, N. Y., paid the city a flying visit last week.

Mr. O. P. Bassett of Hinsdale has returned from his sojourn in Florida much improved in health.

Mr. Otto Weinhaber of 370 Center Street, a florist well known to the Chicago trade, died April 2.

Dick Cogan, until recently with Kennett Bros., is now with Peter Kirscht at Niles Center.

Easter Sunday was a remarkably pleasant day, but for a week or more previous the weather was as bad as it could be. And while the supply of flowers for Easter was large, had the weather been favorable the cut would have been enormous.

Since Easter trade has been fair with down town florists and apparently rather better than that with those located away from the business center. The florists in the residence districts seem to be getting the bulk of the orders for funeral flowers.

Nearly all the florists say that the Easter trade of 1891 was by all odds the best we ever had.

You can give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

Chrysanthemums.

Catalogue with description of my two new sets now ready. Sent on application.

The following varieties are offered at \$1.00 per 100 for cash.

KIOTO, L. B. BIRD, H. CANNELL, GOLD, PULITAN, GORIOSUM, CULLINGFORDII, GRANDIFLORUM, M. E. NICHOLS, L. CANN NG.	
E. G. HILL	\$10.00 per 100
W. H. LINCOLN	6.00 per 100
Avalanche	8.00 per 100
Louis Bochner	5.00 per doz.
H. E. Widener	1.50 per doz.

JOHN THORPE
PEARL RIVER, NEW YORK.

CHRYSANTHEMUMS.

—All Prize Takers of 1890.—

I have over 250 varieties of the very best Chrysanthemums exhibited last year, and am now prepared to furnish plants at moderate prices.

Will send too strong plants, one hundred different kinds, all good ones, my selection, for \$1.00 or will send 300, each different, and containing all the most valuable and popular kinds of the past season, for \$5.00.

All Plants Guaranteed to be in First-Class Condition. Send for descriptive circular giving full descriptions and prices to

O. P. BASSETT,
HINSDALE, ILLINOIS.

CHRYSANTHEMUMS.

NEW SET.

Mistletoe, Mermaid, Eda Prass, Innocence, and a few of the others, any number of any variety, 50 cents each; \$5.00 per dozen.

SEEDLINGS.

Grown from my own seed, gathered from choice flowers fertilized by the Chrysanthemum Bee. Ready May 1st, \$1.00 per doz.; \$7.00 per 100.

CHOICE STANDARD SORTS

of over 100 varieties. Strong plants good for cuttings for April and May propagation. From \$5.00 to \$10.00 per 100. Send for estimates.

FRED. DORNER,
La Fayette, Ind.

CHRYSANTHEMUMS.

The finest and most complete collection in the country. The choicest and finest sorts are the cheapest, as you will find when you sell the blooms in November. If, in the rush of the season's work, you have neglected to stock up with Chrysanthemums, here is an opportunity to do so at once.

NO. 1. We will send you 100 plants in 20 finest varieties, to include **WIDENER, MOLLIE BAWN, MRS. W. K. HARRIS, SHASTA, MRS. WM. BOWEN, JOHN LANE, E. G. HILL, IVORY,** and others equally good, for..... **\$10.00**

NO. 2. We will send 100 plants in 20 fine sorts, not quite so recent introductions as No. 1, but all sterling varieties like **EXCELLENT, H. CANNELL, INTERNATIONAL, KIOTO, MARVEL, MISS M. WEIGHTMAN, T. C. PRICE, MRS. W. SARGENT,** for..... **\$6.00**

NO. 3. 100 plants in the 20 following varieties: **CULLINGFORDII, ELSIE, GRANDIFLORUM, JNO. THORPE, L. B. BIRD, L. CANNING, MRS. A. BLAC, BELLE POITIVINE, ADVANCE, MRS. I. CLARK, PURITAN, TWILIGHT, E. LONSDALE, MRS. F. CLINTON, W. H. LINCOLN, W. W. COLES, VIOLET ROSE, MRS. F. THOMPSON, WHITE CAP and TOKIO,** for..... **\$4.00**

NO. 4. We will send 100 plants, one of a kind, all labelled, choice new and older sorts, **\$10.00**

NO. 5. 100 plants, TWO of kind, for..... **\$8.00**
P. L. BLANCARD, for..... **\$4.00**

NO. 7. 12 Novelties of '91, our own and various other raisers', for..... **\$7.50**

THE TWO OSTRICH PLUMES

{ **MRS. ALPHEUS HARDY,** in large quantity, at..... **\$4.00 per 100**
LOUIS BOEHMER,..... **\$4.00 per 100**

M. B.—With every \$10.00 order we will send, **GRATIS,** our Novelty **J. M. JORDAN;** magnificent incurving variety, light silvery pink, with rose shadings. The finest pink variety extant for cut flowers. (Single plants, \$1.00 each.) French Novelty, **M. MARIE HOSTE;** magnificent creamy white striped amaranth; this won two First Class Certificates from the National Chrysanthemum Society of Great Britain in the recent fall exhibits. (Single plants, \$1.00 each.)

CARNATIONS, ROSES, and a general line of greenhouse stock in great quantities.

✉ Write for prices on anything you may need.

E. G. HILL & CO., RICHMOND, IND.

CHOICE * CHRYSANTHEMUMS

For Florists' Use.

	Each		Each
ADVANCE	4c	MRS. W. BAKER	8c
ADA SPAULDING	8c	MRS. J. S. FOGG	8c
AURIOLE	8c	MRS. A. BLANC	8c
AVALANCHE	8c	MRS. A. C. BURPEE	4c
CULLINGFORDII	4c	MRS. J. CLARK	4c
E. G. HILL	4c	MRS. A. HARDY	4c
EXCELLENT	4c	MRS. JOHN WRIGHT	4c
G. F. KAWSON	4c	MARY WHEELER	4c
G. F. MOSEMAN	8c	MANDUS	8c
KIOTO	4c	PRES. HARRISON	10c
HARVEST QUEEN	6c	OCTOBER BEAUTY	4c
IVORY	8c	PERLESS	8c
JOHN LANE	8c	REWARD	8c
M. WANAMAKER	10c	ROHALLON	10c
T. J. EMLEN	10c	SNOW DROPS	8c
MRS. LIEBIE ALLAN	8c	SUNFLOWER	8c
MOLLIE BAWN	8c	T. C. PRICE	5c
MRS. W. SARGENT	8c	W. H. LINCOLN	5c
MARY WEIGHTMAN	8c	W. W. COLES	4c
MRS. HICKS ARNOLD	8c	LOUIS BOEHMER	40c
MRS. BENJ. HARRISON	8c		

Not less than 5 plants of a kind. Price for one plant of a kind on application. Send us a list of your wants and let us price it. 200 other standard varieties in stock.

ALL AMERICAN NOVELTIES FOR 1891, FOR PRESENT OR MAY AND JUNE DELIVERY. Prices on application.

NATHAN SMITH & SON, 167 W. Maumee St., ADRIAN, MICH.

CHRYSANTHEMUMS.

HOLLIS' SEEDLINGS OF 1890.

Nine distinct and choice varieties. Prospective prize winners of 1891 used them. Best quality and lowest price.

35 to 50 cents each; \$3.00 for the set.

Send for descriptive list.

GEORGE HOLLIS, South Weymouth, Mass.

3,000 Gen'l. Jacq. Rose plants, 4-in. pots, per 100, \$7.00.
Colesa Cuttings rooted, Verschaffeltii, Golden Belder (golden Verschaffeltii) and Sunset, per 100, 75c.
per 100, \$7.00.

JOHN RECK, Bridgeport, Conn.

SPECIAL OFFER FOR CASH,

TO MAKE ROOM.

	Each
KENTIA, Bel. and Post, 3 ft. high, 4 to 5 character leaves	\$8.00
" Bel. and Post, specimens, 2 1/2 ft. high, 3 to 4 character leaves	5.00
" Bel. and Post, 2 1/2 to 4 ft. high, 3 to 4 character leaves	2.00
" Bel. and Post, 2 to 2 1/2 ft. high, 3 to 4 character leaves	1.50
Aspidistra variegata, 5 to 6 leaves	1.50
Coco Weddelliana, 2 feet high	1.50

All the above grown cool and in the condition for immediate use.

E. W. WEIMAR, Mt. Vernon, N. Y.

ORIGINAL AND LARGEST GROWERS OF
LILIUM HARRISII, BETTER KNOWN AS **THE BERMUDA EASTER LILY**.
 BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 120 in length, of a crop of *Liliium Harrisii* in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name “Bermuda Easter Lily”—but by growing it in this country in the greenhouse, with successful results, it can be had in bloom all the winter from early in December until after Easter. In fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it does in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have barely begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his own use. We hear it said occasionally that *Liliium Harrisii* flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks. If in a proper place, it bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: “The Lilies came in excellent shape. I don’t think I lost one; it is a pretty good recommendation for your packing.”
 The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: “The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry.”

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**; supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1890, over

— **HALF A MILLION BULBS.** —

Be sure you get the genuine *Liliium Harrisii*. In order to secure “the true variety,” purchase our Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant *L. Longiflorum* in Bermuda, planting it with *Harrisii* to increase their stock rapidly when *Harrisii* was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand. “Mixed Bulbs” only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

Preparing for an Exhibition—Page 533.

Nothing is said about newspaper support. In my opinion it is of paramount importance. Cultivate the good will of the local newspapers, and get them to speaking about the flower show before it comes off as well as when it is in operation. You cannot buy this favor with money. But get up a capital exhibition on a broad, united and unselfish basis, and conduct it liberally, popularly, vigorously and with enthusiasm, and I believe the press will support it cheerfully and warmly.

Help the reporters. Give them not only all the information they ask for, but bring to their notice whatever is of public importance or unusual merit. Don't attempt to paralyze them with your own botanical or horticultural knowledge, but tell them simple and interesting truths, something they can remember, for they seldom are trained florists, and they have got to get up their report in a hurry. Don't treat them as if they were a bore, or as if you were doing them a favor in telling them anything at all. Please remember you are the favored party, for on their grace much of the success of your exhibition will depend. The reporter generally spins a screed of some sort, and if "there is nothing in it," and it is all gush and twaddle, perhaps the young man knowing nothing could say nothing, and as you told him nothing he could remember, he is more sinned against than sinning.

Another thing: Don't abuse the good nature of the indulgent public. Don't go out into the by-ways and bring in every ghost, scrag and tatter wallop of a plant you come across simply to fill up space. Remember that a flower show should be an exhibition of plants and flowers of more than ordinary quality of their kind, and no plant or flower of mediocre rate should be admitted at any price. The people pay their money to see something meritorious, then don't disgust them by charging them an admission fee to see anything of inferior quality. As scrub stock are inadmissible in a horse show or cattle show, so too they should be in a flower show. W. F.

Add W. E. Barnes, Vinland, Douglas county, Kan., to the directory list as N.

Surplus Stock

	Per Doz	Per 100
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Geraniums, standard sorts, " " . .	75	5 00
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Gratiolium Lanatum " " . .	60	4 00
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Hibiscus, in variety 4 in. . .	1 00	8 00
" 3 in. . .	75	5 00
Ivy, English and variegated 2 1/2 in. . .	60	4 00
Lantana, standard sorts 2 in. . .	60	4 00
" best white 4 in. . .	1 00	8 00
Mesembryanthemum Cor. Var. 2 in. . .	60	4 00
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Roses, Bride, La France, Perle, Mermel, M. Guillot, Gontier, 3 in. . .	75	5 00
Roses, Countess de la Barthe, Cornelia Cook, Camoens Mad. Scipio Cochet, Mad. Cecil, Brunner, M. Niel, The Bride, Souv. de St. Pier, Giant and Genl. Jacobs, 2 1/2 in. . .	60	4 00
Verbenas, standard sorts, 2 in. . .	50	3 00
" Vista, finest white, 2 in. . .	60	4 00
" rooted " " . .	2 00	10 00
cuttings " " . .	1 00	5 00
Verbenas, general collection, 57 per 1000	75	

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Tree & Herbaceous Pæonias, Iris Kæmpferi in newest magnificent coloring.

Hardy Conifers, New sports of Retinosporas.

MINIATURE JAPAN CONIFERS.

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Araucarias, Tree Ferns, Bamboos.

We furnish RELIABLE goods at corresponding rates.

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CHRYSANTHEMUMS, Per 1000, \$25.00, many choice varieties.....	\$3 00
GERANIUMS, 10 to 20 splendid sorts.....	3 00
ROSES, all the best standard vars., my selection.....	4 00
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HELIOTROPE, Garfield (best purple) 2 1/2 in.....	3 00
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of American grown hardy sorts.

Hardy Azaleas.

For other rare and old plants see Catalogue.
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	Per 100
OPAEAS, THOS. BOGG, ROSA, WHITE FRINGED, 3 and 4 inch pots. . .	\$4 00 and \$8 00
CANNA, Ethenanum, strong plants, pot grown. . .	5 00
CLEMATIS, 6 best sorts, 1 year old. . .	20 00
CALIAS, fine, strong plants, 4 & 5 in. pots, \$5 & 7 00	

If wanted, speak quick.

PAUL BUTZ & SON, New Castle, Pa.

Violet Crops.

In answer to J. L. (page 616) he should pick from 50,000 to 60,000 salable blooms from October to April.

I have 1,200 plants, and have sold 22,375 blooms from October 20 to April 1. I would like to hear if any other growers have done better. The house will hold 3,000 plants, and I feel sure had I had this number of plants I could have cut 60,000 blooms. The 1,200 plants mentioned will give me 10,000 blooms this month.

I would also like to state that I do not believe in the existence of such a thing as a "violet disease." I have grown violets for ten years, and have never seen any disease. I have had a batch of plants that did not do as well as others, but it was neglect on my part that caused them to go back.

Below is my cut from October 20, 1890, to April 1, 1891:

October.....	1,200 blooms.
November.....	3,325 "
December.....	1,750 "
January.....	3,575 "
February.....	3,275 "
March.....	9,250 "

Total.....22,375

JOHN WIEDEY.

Mt. Washington, Md.

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From 3-inch pots, per 100 \$25; per 100 \$25. From 24-in. pots, per 100 \$5; per 100 \$15. From boxes, once transplanted, per 100 \$4; per 100 \$25.

GLOXINIA SEEDLINGS.

From strictly first class Erecta grandiflora type— all tigered and spotted per 100 \$3; per 100 \$45. Ready for delivery April 1 '91.

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Smaller plants, - - - 1.50 per 100

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ROOTED CUTTINGS.

7 sorts best fringed.....	Per 100	\$1.10
7 sorts, 2 1/2 inch pots.....	"	2.00
ALTERNANTHERA AUREA, rooted cuttings.....	"	.50
ACHTANTHERA LINDENII.....	"	.60
COLEUS, 15 sorts.....	"	.60
HELIOTROPE, white and purple.....	"	.50
CUPIREA (Clear Plant).....	"	.50
AGERATUM, white and blue.....	"	.50
GERANIUMS, 10 best double and single.....	100	1.20
2 1/2 inch pots.....	"	2.00
5 inch pots.....	"	5.00

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BEGONIAS.

Louis Chretien, 2 in..... 4 cts.
Mandarin Aurea, 2 in..... 10 cts.
Rex in variety, 2 in..... 4 cts.
Smilax, from seed boxes..... 100, 30 cts.
The above all strong plants.

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into the ground, but will thaw out bright and EARLY. Orders booked now for spring shipment. THESE PINKS do not produce seed, but increase from the root, and live year after year in the open ground. Send for list to

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CONTENTS.

CHAPTER I—SEEDAGE. CHAPTER II—LAYERAGE. CHAPTER III—SEPARATION. CHAPTER IV—CUTTINGS. CHAPTER V—GRAFTAGE. Including Grafting, Budding, Inarching, etc. CHAPTER VI—NURSERY LIST. This is the great feature of the book. It is an alphabetical list of over 2,000 varieties, with a short statement telling which of the operations described in the first five chapters are employed in propagating them. The following entries will give an idea of the method.

ACER (MAPLE). Sapindaceae. Stocks are grown from stratified seeds which should be sown an inch or two deep; or some species, as *A. dasycarpum*, come readily if seeds are simply sown as soon as ripe. Some cultural varieties are layered, but better plants are obtained by grafting. Varieties of native species are worked upon common or native stocks. The Japanese sorts are winter-worked upon imported *A. polymorphum* stocks, either by whip or veneer grafting. Maples can also be budded in summer, and they grow readily from cuttings of both type and sort, wood.

PHYLLOCLADUS, PHYLLOCLADUS, DISCICARPUS. These are very juicy, they may be laid out in a light position. Cuttings from mature shoots, three to six inches long, root readily in sharp sand. Give a temperature of about 60 degrees, and apply only sufficient water to keep from flagging. If the cuttings are very juicy, they may be laid out dry for several days before planting.

GOOSEBERRY. Seeds, for the raising of new varieties, should be sown as soon as well cured, in loamy or sandy soil, they may be stratified and sown together with the sand in the spring. Cuttings, six to eight inches long, of the mature wood, inserted two-thirds their length, usually grow readily, especially if taken in August or September and stored during winter. Stronger plants are usually obtained by layers, and the English varieties are nearly always layered in this country. Layering is usually employed the English varieties being allowed to remain in layerage two years, but the American varieties, only one (P. F. 27), layered plants are usually set in nursery rows for a year after removal from the stools. Green-layering during summer is sometimes practised for new or rare varieties.

CHAPTER VII—POLLINATION.

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JARDINIÈRES IN GREAT VARIETY.



NOTE.—Although forced to play a minor part in the Prize Pantomime, we nevertheless produce the best STANDARD POT in the country, and members of the S. A. F. soon found that to get such they must send their orders to

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AHEAD OF EVERYTHING.

We Follow None, Prize or No Prize.

Our latest improvements in machinery produce a Standard Pot which for lightness, smoothness and durability, has never been equaled. Customers buying of us will

SAVE ONE-THIRD IN FREIGHT.

And to prove this, we give below a table showing number in Crate and **WEIGHT** of same, which speaks for itself:

Size.	No. in Crate.	Weight.
4 inch.	500	250 lbs.
"	240	250 "
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"	1400	250 "
"	1250	300 "
"	800	350 "
"	600	350 "

It will be seen at a glance, that our pots are one-third lighter than formerly, and yet we claim that owing to the superior quality of our clay and improved machinery, they are stronger than any pot in the market, and we frankly ask you to make the test. **SEND FOR PRICES.**

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Soil for Palms.

Will some reader of the FLORIST give the positions that some of the used palms grow in naturally—if in high and dry or low moist places. Some of the palms I grow have very large long roots that lift the plants out of the pots. I suppose they grow naturally on dry soil. Seems as though we could treat these plants more intelligently when we know the conditions under which they grow naturally.

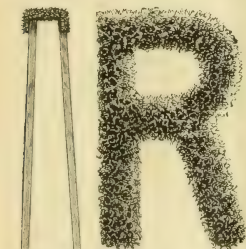
I often see in the FLORIST that peat is to be mixed with the soil for palms. The peat I know is the black soil that is found around springs where leaves and grass has lain only partly rotted for ages. Is that what is referred to? It looks as though it was of no value.

Walkerton, Ont. W. RUSSELL.

Shading Greenhouses.

Is a preparation of white lead the best thing to apply as a shade, for summer only, and if so, what is best to use with it for thinning, turpentine or naphtha? Am almost afraid to use white lead fearing it may not come off in fall, and then again whitewash requires applying several times during the season.

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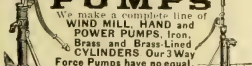
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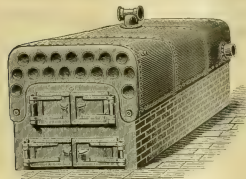
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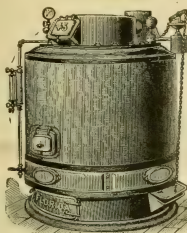
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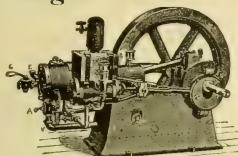


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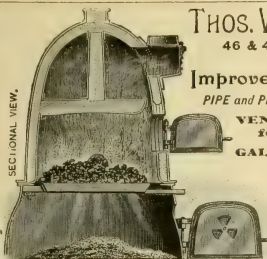
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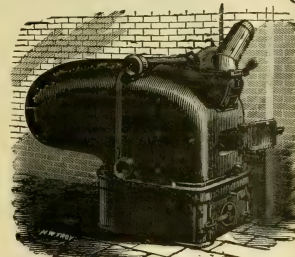
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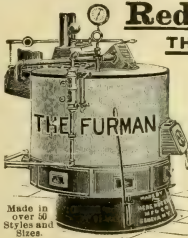
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Vol. VI.

CHICAGO AND NEW YORK, APRIL 16, 1891.

No. 150.

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THERE WAS an exhibition by the New York Florists' Club last week. We had arranged for a special report, but the report had not materialized at time of going to press.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

At Toronto Next August.

As one of the prime movers in causing the invitation to be extended to the S. A. F. to hold the next convention in Toronto I would like to reply to Mr. Mendenhall, and right here I want to say I am in hearty sympathy with what I believe to be the spirit of Mr. M.'s letter, though I certainly draw the line at the "wet blanket" scene, and perhaps a word of explanation will put said scene in a different light. When we Canadians decided to invite the society to hold the next annual convention at Toronto we were somewhat in doubt as to whether some of the cities of the west would not have a prior claim and in that case we would have been satisfied to wait another year. Therefore we did not think it wise to rise as soon as the announcement was made that invitations were in order, wishing to give our western brethren opportunity to claim their just dues. But seeing that they hung fire we then extended the invitation on behalf of Toronto.

We were not scared by the princely hospitality of our brethren of the Boston Club. All honor to them say I, and all honor to those noble patrons of horticulture who gave us such a feast of both mind and matter during our stay in the Hub of creation. 'Twas well methinks the said hub was well lubricated, and right royally was it done.

As to our attempting to emulate Boston, there was and is still nothing further from our thoughts. We will try, as I said at Boston, to give you one privilege we had not there, and that is to enjoy yourselves in your own way, at the same time endeavoring to make your visit as interesting as possible. We recognize the imperative necessity of allowing nothing to interfere with the business of the convention and the accomplishment of the objects for which the society was formed. It is certainly unfair to ask the executive committee to do all the work of the society and shoulder all the responsibility also, as they must do unless the members as a whole are present at the sessions to discuss and act upon the matters brought before the society.

Both the business and social features of the convention are right in their places, and the zest for the latter will be the keener for a careful attendance to the former. The social feature does not need the same advocating as the other, and it is not strange, for after 51 weeks of toil and bustle the inclination is strong to fully enjoy the other one, especially when for probably the first time in the year you are free from continuous calls upon your time and care.

It is probable as Mr. M. says, that some of the smaller cities have feared to invite the society to visit them on account of the lavish entertainment given in other cities and a disinclination to do less than

what had been already done, and it we Canadians can break the way for them by setting precedents aside the society's acceptance of our invitation will not have been in vain.

In conclusion I think perhaps the matter of porridge and coffee may well remain in abeyance for the present, both being good in their place. F. G. FOSTER.
Hamilton, Ont.

Our London Letter.

Our English friends understand fully the value of exhibitions, and show excellent taste in the arrangement and management of them. The "first spring shows," held during the past two weeks, have been very interesting, though the flowers exhibited were necessarily bulbous in the main.

That of the Royal Horticultural Society, which opened the series, was not large, owing to the very dark weather and fogs just before; there was a fairly good variety of tulips, among which I noticed the Toreador, a double red and yellow little cultivated with us, very well developed. The crocus made a fine showing at all the exhibitions; planted in round boxes about a foot in diameter, Mme. Mina, Mont Blanc, General Grant were fine masses of color. A novelty in forced roses was a yellow Banksia, trained in basket shape and full of bloom; an award of merit was given to the new amaryllis J. R. Pitcher and to the beautiful Cattleya Trianae Hardyana. Genistas fragrans and elegans are grown to great perfection boronins and ericas are also in d. Wm. Paul & Son exhibited a grand variety of cut camellia blooms, among which Mathotiana, an immense scarlet of fine shape and consistency, was conspicuous; Marchioness of Exeter, a deep pink, and Beauty of Waltham were also grand flowers. Barr & Son showed also a good variety of narcissus, among which Horsfield was one of the best; Achilles, deep color and fine open trumpet, Cernuus, pale whitish lemon; Golden Spur and the fluted scoticus seemed to be the showiest early trumpets, while among the incomparables, Leedsia, amabilis and Queen Bess were most attractive.

The Royal Botanic Society's show was delightful. The society have the advantage of handsome grounds and a fine large conservatory in Regent's Park; the military band was hidden among tall palms, eucalyptus and towering araucarias, and the different exhibits were placed around the sides and in the long glasshouse adjoining; the attendance was large and fashionable, and great interest was shown. Dutch bulbs were well forced and in great variety; the tulips especially well shown; Van der Neer, the color of which is most fashionable just now, Ophir d'Or and King of the Yellows, the best two of this color, Proserpine,

Van Vondel, white and pink, were the most showy singles; Torredor, Murillo, Salvador Rosa and Duke of York the most successful doubles. Among the hyacinths, Obelisque was the best yellow, the English favorites being for the rest the same as ours. The competition in deutzias brought out a dozen of the most beautiful plants possible. Why do we not grow more of them for Easter decorations? Their color, delicacy and readiness in forcing all recommend them. Messrs. Low & Co.'s exhibit of ericas, epacris, boronias and grevillias comprised a fine collection of these plants, which, with the pretty genistas, are most popular decorative plants both here and in Paris. Messrs. B. S. Williams & Son's exhibit of imantophyllums was the best collection I have seen, although great attention is also paid these plants by the growers for Parisian markets. A few grand plants of roses, including Henri Schultheis, Céline Forestier, Violette Bouyer, the new Tea Souvenir de S. A. Prince, and some fine polyanthas. Madame Hoste as shown was a fine lemon yellow, of good form. Cut blooms of the H. P.s Silver Queen and J. D. Pawle were very much admired. A new double white azalea, Princess of Wales, from H. Williams & Sons was very beautiful. Cyclamens and cinerarias were shown as near perfection as possible, and several good shows of dafodils which were very dwarf and stocky.

The most striking floral piece I have seen lately was an oval mirror frame about three inches wide in Van Sion narcissus, a few sprays of spirea bloom and brown ivy leaves were dotted here and there to relieve the stiffness, and at the top were four large ends of orange ribbon and a bunch of yellow roses with agrostis and ivy and mahonia leaves; at each side of the base was a bunch of ribbon and a small cluster of flowers, to conceal the feet.

F. L. V.

London, Apr. 1.



Our American Roses.

Having a desire to know how many roses this country has produced I have made a group of all the varieties of American origin, which I hope will be of some interest to the many readers of this journal. With the list we may be able to claim some recognition as the producers of some valuable additions to the varieties of the Queen of Flowers. We are young in this branch of the business and some good varieties may be looked for in the near future.

We would like to have the rose receive the same boom that the carnation is having just now, and at every place visited have the florist point out a new rose of his own.

In nearly all cases our ambition has been to produce forcing roses—however, all roses that force well under glass have proved to be good garden roses. Our best varieties have come by accident—imported from other sorts, and as yet we can not claim to have raised many pedigree or seedling roses.

Below I give a list of American varieties, their origin and by whom sent out

and a general description of each variety:

Anna Maria (Prairie; Feast, 1843), pale pink; has very few thorns; the foliage of this rose is highly perfumed.

Baltimore Belle, (P.; Feast, 1843), a blush pink, sometimes white, valuable as a pillar rose.

Queen of Prairies, (P.; Feast, 1843). A rosy red, frequently with white stripes; this rose is very much planted.

Cornelia Cook, (Tea; A. Cook, 1855). Raised from Devonensis; white, sometimes tinged with pale yellow, very large and full. This variety lacks the delightful fragrance of the parent. For a long time this rose was forced very extensively under glass, but since The Bride appeared very few are grown under glass. In The Bride we have all the good qualities of Cornelia Cook, and in addition we have freedom of bloom and a better color; for this reason C. Cook should be discarded as a forcing rose.

James Sprunt, (Beng.; Rev. James M. Sprunt, 1858). A climbing sport from Silene, the color is crimson, same color as the parent, but the flowers are fuller and larger; very desirable for the south.

America, (N.; C. G. Page, 1859). Raised from Solferino X Safrano; pale yellow with fawn center, large and full flowers; more shy than either parent.

Isabella Sprunt, (Tea; Rev. James M. Sprunt, 1865). A sport from Safrano; sulphur yellow; very beautiful in bud; an excellent garden sort.

American Banner, (Tea; sent out by P. Henderson, 1879). A sport from Bon Silene; the color is crimson striped with white; of no value except as a curiosity.

Marshall P. Wilder, (H. R.; Ellwanger & Barry, 1884). A seedling from General Jacquemont; it is of vigorous growth with healthy foliage; flowers large, semi-globular, full, well formed; color a cherry carmine, very fragrant; one of the best autumn bloomers; said to resemble Alfred Colomb, which is also a seedling of the same parent.

Rosalie, (Tea; Ellwanger & Barry, 1884). Raised from seed of Marie Van Houtte; of slender yet healthy growth; flowers small; the color is a deep pink; very free bloomer and fragrant.

Queen's Scarlet, (Beng.; Hallock & Thorpe, 1880). A rich velvety scarlet; moderately full, a good bloomer, one of our best garden sorts. By some this rose is said to be the same as Agrippina. The writer believes this to be an improvement on the old sort. The growth of Agrippina is more straggly and the color is not as good as in Queen's Scarlet. We should catalogue Queen's Scarlet and discard Agrippina.

Sunset, (Tea; P. Henderson, 1883). A sport from Perle des Jardins; the habit and growth are the same as the parent. The color of this rose is a rich golden amber or old gold; very distinct and one of the most valuable roses on our list.

The Bride, (Tea; Ho. N. May, 1886). A white sport from Catherine Mermet; in all respects save color The Bride is the same as the parent. The Bride is without a doubt the finest rose of American introduction and the best of all white roses.

Souvenir de Wootton, (H. Tea; Cook, 1888). Raised from Bon Silene X Louis Van Houtte. The color is a beautiful shade of carmine crimson; very sweet and vigorous grower. This rose caused quite a sensation when it first appeared, but I don't believe it will prove all that is claimed for it under glass. We get a great many imperfect flowers both in form and color. For this reason and the low price obtained I don't believe it will

be found profitable to force. I like the rose very much and consider it a great acquisition.

American Beauty, (H. R.; Hon. G. Bancroft. Sent out by Geo. Field & Bro., 1885). Large, globular, deep pink shaded with carmine, delicious odor. There is a question as to the origin of this rose. It is said to be an old sort sent out under a new name. However, we can claim to have found the good qualities of this variety and made it one of the most popular roses.

White Bon Silene, (Tea; Morat, 1885). A white sport from Bon Silene. The color is not a good white; of no value as a forcing rose, but having the delightful fragrance of the parent it can claim a place in the garden, as few white roses are sweet.

Dinsmore, (H. R.; sent out by P. Henderson, 1888). The color is a rich crimson; very full and fragrant. It is claimed that this rose was raised from seed of an H. R. rose. In my opinion the above rose is identical with Madam Chas. Wood. I have had both planted side by side and could not notice any difference in the varieties. If such be the case Madam Chas. Wood deserves all the praise that has been given to Dinsmore. I consider Madam Chas. Wood one of the most satisfactory roses for general planting.

White Perle, (Tea; H. Ritter, 1889). A white sport from Perle des Jardins; a strong grower and free bloomer; not recommended as a forcing rose.

Queen, (Tea; Dingee & Conard, 1889). This grand rose is a white sport from Souv. d' un Ami. In all other respects except color it is the same as the parent. Queen is not claimed to be a forcing rose, but excellent for the garden.

Climbing Perle des Jardins, (Tea; John Henderson Co., 1889). A sport from the well known Perle des Jardins with which it is identical except the climbing habit. A valuable addition to our list.

Rainbow, (Beng.; Sievers, 1889). This rose originated in California, a sport from Papa Gontier and resembles it in every particular except in color, which is delicate yellow at the base, changing to a deep pink on the outer part of the petals striped and flaked with deeper color and silvery white, making it very attractive.

Vick's Caprice, (H. R.; James Vick, 1889). A sport from Archiduchesse d'Autriche. Large, pink dashed with white and carmine, vigorous and free blooming. Ruby Gold, (sent out by P. Henderson & Co.) This rose is claimed to have quite a unique origin. A scion of Catherine Mermet was grafted on M. Niel with the result here described. The color of the flowers shows the perfect blending of the rich golden yellow of M. Niel with the delicate pink of C. Mermet. From a few stock plants that the writer has seen the characteristics of the M. Niel predominate.

Anna Cook, (Tea; Cook, 1888). A seedling from Bon Silene. Delicate shade of pink changing to white; vigorous and free blooming.

Henry M. Stanley, (Tea; Dingee & Conard, 1890). Raised from Madam Lambard and Countess Riza du Parc. The color is a rare shade of amber rose delicately tinged with apricot yellow toward the center; very full and fragrant.

Maud Little, (Dingee & Conard, 1890). Raised from Pierre de St. Cyr and Duchess de Brabant. Color soft China rose with a peculiar glowing lustrous bloom.

Mrs. Jessie Fremont, (Tea; Dingee & Conard, 1890). Raised from seed of Duchess de Brabant. Color white pass-



GROUP OF HARDY PLANTS SHOWN BY THE BUSSEY INSTITUTION AT THE SPRING EXHIBITION OF THE MASS. HORT. SOCIETY, BOSTON.

ing to a deep rosy flesh sometimes shaded with coppery red or old rose.

Golden Gate, (Tea; Dingee & Conard, 1890). From Safrano and Cornelia Cook. Color rich creamy white tinged with golden yellow; petals large and broad; said to be a promising sort.

Pearl Rivers, (Tea; Dingee & Conard, 1890). From Devoniansis and Madame de Watteville. Color is ivory white, the petals delicately shaded and bordered with pale rose.

Waban, (Tea; E. M. Wood & Co., 1890). A sport from Catherine Mermet, which it resembles in every respect except color. The color is a rich bright pink. Should this variety retain the bright color we will have a valuable rose. This is the last rose we have on our list and I am very sure it will not be the last.

Collingdale, Pa.

D. T. CONNOR.

The Brooks Place, Milton, Mass.

January 23 the writer paid a visit to the Brooks place, at Milton, and was very kindly shown around by the superintendent, Mr. Geo. M. Anderson.

Some of the finest violets that go to the Boston market are grown here. Two long ranges of frames contain some 3,500 plants, in splendid health; a 2-inch hot-water pipe runs along the front and back of the frames, no mats or shutters are

needed; the young plants are set in the frames in spring; as soon as the fall rains begin sashes are put on and tilted up back and front alternately, which keeps up a good circulation among the plants; even on cold nights a little air is admitted; no yellow leaf or spot could be seen, and finer flowers would be hard to find; Christmas week 6,000 were sent to market and since October 1 400 a day has been the average pick; the day I was there Mr. A. said he could easily pick 3,000 at once, and by the number of flowers to be seen on the plants I had no doubt of it.

The two long ranges of rose houses are planted mostly with Mermets and Brides, a few Gontiers and La France. The strong growth, large buds and luxuriant foliage showed the plants were in splendid health. The two houses contained 4,000 plants. In another house were 600 hybrids in pots plunged in the beds; they were just starting into growth and were expected to be in flower for the Easter trade.

The carnation house holds 1,500 plants, of sorts: Mrs. Fisher, Hinz's White, Snowdon, Grace Wilder, Florence and Lucifer; the two last are bright scarlet and good market sorts; all were in fine health.

About 1,000 cyclamens and as many cinerarias, some in flower and others coming, all for market, a grand batch of

Spirea Japonica, many deutzias and hydrangeas were on the way, many boxes of freesia and lily of the valley were in full bloom, and others were starting into growth; of the latter 8,000 were imported last season, also 1,000 Liliun Harrisii and candidum and 500 Indian azaleas from Belgium; these were nice bushy plants in 6-inch and 7-inch pots.

Some 2,000 chrysanthemums were planted on the benches last June, trained one flower to the stem, the blooms were large and brought ready sales, fully as many plants will be grown this year. Some 60,000 bedding plants were got ready for market last season; 25,000 geraniums were of that number. A lot of fine seedling geraniums were produced last year, the best one being named in honor of the owner of the establishment, Mrs. J. W. Brooks.

Some very fine crotons have been grown here and exhibited in Horticultural hall, Boston, on different occasions, to which prizes were awarded. Mr. Doogue the city gardener, bought out the stock last fall for use in the Public Garden and city squares next summer.

In the house where the crotons were are now many fine young palms; 500 of these were got from Belgium last fall and are much in demand in Boston for window plants.

I noticed that wherever room could be



PORTION OF MR JOHN L GARDNER'S EXHIBIT AT THE SPRING EXHIBITION OF THE MASS. HORT. SOCIETY, BOSTON.

spared under the benches, beds for the toothsome mushroom had been made; many were showing their heads and I was informed good results from many of the beds had been obtained and ready sale is found in the city.

The plants under Mr. Anderson's care in all the departments show that he is a master in the profession. He graduated from the McPherson establishment in Toronto under Mr. Geo. Vair, the veteran gardener, who has had charge over 40 years, and where perhaps the finest private collection of plants is in Canada today. Mr. A. hopes to be able to take in the convention there next August and pay his friends a visit.

W. S.

Insects and Diseases.

Conducted by CHARLES F. BAKER, Agricultural College P. O., Ingham Co., Mich.
Send specimens of unidentified insects and diseased plants to him at above address.

The Variegated Cutworm.

(*Agrotis saucia* Hubn.)

Some specimens of a cutworm were recently received from Mr. A. B. Hathaway, New Bedford, Mass., who said that they had been troubling florists in that place for a number of years. They had attacked—in the greenhouses—smilax, rosebuds, carnations, Roman hyacinths, lilies, geraniums, coleus, and in fact, nearly everything. From about the roots of one smilax plant Mr. Hathaway took nearly a quart of the worms. Dr. C. V. Riley identified it as the variegated cutworm (*Agrotis saucia* Hubn.) and states that it is quite commonly found in the greenhouses in Washington.

The eggs of the variegated cutworm are laid on the leaves and twigs of trees. This seems somewhat strange, when the subsequent habits are taken into consideration. The eggs are spherical, pinkish in color, and longitudinally ribbed. They are laid, a large number in a place, in a

single layer, and in regular rows. Dr. Lintner has found them on the branches, twigs and trunks of young apple, pear and peach trees. It would be well for any florist, should he have the opportunity, to observe on what plants in the greenhouse the eggs are deposited.

In regard to the larval stage, Dr. Riley, who has reared this cutworm and studied the various stages, says:—"The newly hatched larva is dirty yellow in color, covered with dark conspicuous spots; it feeds openly and loops somewhat in its walk. After the first moult, the dark spots become almost obliterated, and it takes on the appearance of the full grown worm, assuming at the same time the normal cutworm habit. The full grown



larva (see figure, after Riley) is about two inches long, finely mottled with dull flesh-brown and black, and has dark, velvety, longitudinal marks along the sides of the back." During the day these larvae hide—either just under the surface of the soil, or under some object lying on it. It is at night that they come out, climb upon plants and devour the foliage.

Pupation takes place underneath the surface of the ground, and the pupa is dark brown in color, and of the normal shape. There are two or three broods in a season, and the pupa stage may last from thirteen days (as in the case of some that Dr. Riley reared) to a month, or, with the last brood, over winter. The moth resembles very much, in general appearance, other cutworm moths. It requires close observation to distinguish these dull colored night fliers. The front wings of the imago of *Agrotis saucia* (called the unarmed rustic) are greyish brown, varying to reddish or black on

the anterior border. The markings are indistinct and appear like irregular bars. The hind wings are dirty white and with brown veins. The wings spread from one and one-half to one and three-fourths inches.

This insect occurs in almost all countries, but is not found very common, except in America. Here, besides the plants previously mentioned, it feeds on cabbages, corn, clover, timothy, various weeds and any field crop. Dr. Lintner speaks of it as injuring lettuce in cold frames.

A great many remedies have been recommended for cutworms. Mr. Hathaway, in his letter, states that he cleared his roses and smilax beds of them by repeatedly digging over the soil and picking them out. If this is done as long as any can be found and done thoroughly, it must certainly prevent further injury. Salt sprinkled about the roots of the plants has been found efficient. Another remedy which has been successfully tried is the placing of poisoned baits among the plants. Bunches of clover dipped in an arsenical wash (as Paris green) might be used.

Euphorbia Jacquiniaeflora.

Among the useful odds and ends we grow in our houses *Euphorbia Jacquiniaeflora* (fulgens) with its gracefully arching flower shoots helps us out often in floral decorations, or as the case may be, to set off or trim a basket or a vase. I do not mean to say that we would be able to dispose of a whole houseful of them, nor do I think that any one could sell it in quantity, but a limited number of plants would be found most useful and very profitable in every retailing florist's place, either grown in a bench at the end of a rose house where the temperature will suit it admirably all the year around, or in pots.

The plants will attain a considerable height under glass, five to six feet, and the tops of the branches will produce



GROUP OF ORCHIDS SHOWN BY MR. E. W. GILMORE AT THE SPRING EXHIBITION OF THE MASS. HORT. SOCIETY, BOSTON.

(under favorable circumstances) flowers two feet down from the tips, the flowering part always arched or bent over and the little flowers growing out upright from each axil of the leaves, forming a dense orange scarlet narrow wreath.

It is no trouble to grow them. The easiest way would be to use hardwood cuttings three to four inches long for propagating, after the flowers have been cut; stuck in sand with a gentle bottom heat they will root soon and may then be potted off into 2½-inch pots, where they may remain until May or June, when they are either repotted or planted in the end bench of a rose house and at the same time are pinched back so as to induce them to branch out. Soon afterwards a vigorous growth will be observed and they are then tied to stakes. While growing abundance of water should be given, and in November when the little flower buds begin to show in the axils of the leaves less water will be required.

If grown in pots a warm sunny situation should be selected for them and they should never be allowed to become dry. If the plants should suffer a check through want of water they will ripen off their tips and will fail to produce the longest flowering branches. By planting on a bench less care in watering is required, as the soil will not dry out so rapidly.

The flowers may be cut just after opening or remain on the plants for two months longer and be just as good and fresh then. We had the bulk of ours cut

by New Years and the few that were left over were cut at intervals between that time and March 20, and would have kept for Easter in the same condition. After New Years, or as soon as all are cut, the bench room may be used for Lillium Harrisii or anything else, and the space made to produce a second paying crop.

Rochester, N. Y.

J. B. KELLER.

The Eucharis.

This magnificent plant should be more generally grown by florists than it is, for it is the queen of all white flowers both in beauty and fragrance, and it is of easy cultivation provided it gets heat enough. With a little judicious management it can be had in flower at almost any time of the year. It is a native of New Grenada and therefore should not be grown in a less temperature than 60° at night and it also likes a little bottom heat.

If planted out on a bench plant it where it will not be disturbed, as it blooms much better for not disturbing the roots more than necessary. It does best in good fibrous loam well enriched with well decayed manure. When the plants are well established an occasional watering with liquid manure is beneficial, especially when the flower spikes are showing. It must always have good drainage, this is very important, for although the eucharis enjoys liberal watering, it must not be allowed to become waterlogged or it will be a certain failure.

In pots it always flowers better for being allowed to become somewhat pot-bound. The best time to shift them is in June or July, and they should be put in a high temperature and liberally watered both at roots and foliage, shading them in the same manner as any other soft wooded stove plant. About September keep drier, but not dry, for about six or eight weeks, then water and treat as before and they will soon show flower. With a moderate stock of plants by using a little judgment in treating them as above they may be had in flower all the time, and for fine floral work no flower can equal it.

There are two varieties of this noble plant in cultivation: *E. grandiflora* and *E. Amazonica*. The first is far superior to the other, is a better grower and is perfect in every sense of the word, while *Amazonica* is not so good in habit or shape of flowers.

Grandiflora has long, somewhat ovate leaves and the flowers are a perfect star in shape. In *Amazonica* the leaves are much shorter and rounder and the flowers are irregular in shape. This variety is very common, the bulbs having been imported in large quantities and many who have only grown this one have been discouraged with it and come to the conclusion that its merits have been vastly overrated, but if they see *grandiflora* in all its beauty they will agree with me in saying that it is the queen of white flowers.

Eucharis candida is a beautiful little gem, it is a miniature *E. grandiflora* and is very useful for small work where *grandiflora* would be large and out of place. It requires the same treatment as above. One thing in conclusion, the *eucharis* is very subject to the attacks of mealy bug and therefore should be watched carefully and kept clean, or the bug will get in the flower spikes when small and spoil the bulbs.

JAS. S. TAPLIN.

Maywood, N. J.

Star of Violets and Roman Hyacinths.

The accompanying illustration is from a photograph sent us by Mr. H. H. Battles, Philadelphia. The star is of violets with an edging of Roman hyacinths. There may be a suggestion here to the florist who gets caught with an order when about the only white flowers he has left are Roman hyacinths. And such an occurrence is not infrequent with many of those who have to depend mainly on flowers of their own growing.

The piece calls to mind the experience of a florist who received an order for funeral work late one Christmas day, the designs to be delivered the following day. He explained about the scarcity of flowers at the time, but was told that they must have a suitable funeral piece and to do the best he could. He knew it would be useless to order any particular flower, so he telegraphed a commission man in a neighboring city to "send forty dollars funeral flowers first train." The box arrived and was found to contain \$35 worth of Roman hyacinths and \$5 worth of stevia, at the ruling wholesale rates, and a note from the dealer saying these were the only white flowers he had in the place.

It seemed like a hopeless case, but though somewhat discouraged our florist went to work. He covered a pillow with the detached bells of the hyacinths, stemmed, in lieu of carnations. He gave it a little foliage and some grace by the long stemmed stevia, he massed big bunches of Roman hyacinths at the corners, and placed Roman hyacinths here and there, then he scarped up a few roses from his own houses and a little heliotrope and similar odds and ends, and by the exercise of considerable ingenuity he turned out several fairly creditable designs, so satisfactory that the bill was quickly and gladly paid.

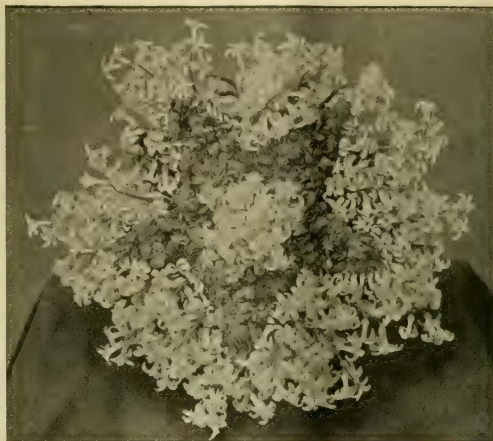
Certainly some very laughable stories could be told by florists of the awful problems they have been put in at times through lack of proper material to work with, though with the largely increased production of recent years these trials are not so frequent. Now the rub is more to get the order rather than how to fill it.

Catalogue Tax in Canada.

Your correspondents J. E. K. and W. F. having both had something to say on the subject, neither of them have yet placed the action of the Canadian government in its proper light before your readers.

In the first place I would say that all catalogues have been dutiable for a number of years and would at any time have been charged duty had they been entered in bulk, but coming through the mails the International postal treaty in a manner prevented the Canadian postal authorities from interrupting them on their way to their destination. The post-office authorities at Ottawa repeatedly declined to take any action in the matter when brought to their notice by officials.

This state of affairs would doubtless have continued but for an enterprising



STAR OF VIOLETS AND ROMAN HYACINTHS

American seed firm on the borders having undertaken to print their large edition of catalogues in Canada and mail from there throughout the U. S., and by so doing reduce their stamp account one half at least. Although this was the first instance of Uncle Sam doing the work and Miss Canada getting the pay, and a small matter when compared with the tons of American seed, florist and nursery catalogues that annually reach Canada through the mails, for the distribution of which of course the American government receives all the payment, yet it was one too many, it could not be tolerated, and right there was where the postal treaty was violated, if, as J. E. K. implies, it was violated.

The action of the Canadian government in collecting duty upon the catalogues followed as a matter of course.

J. F. W.

Cultivation of the Cineraria.

The cultivation of the cineraria is comparatively very simple, yet it must not be understood by this that they will grow and bloom fine plants without any effort on the cultivator's part to meet their special requirements; on the contrary they require as much care as any other class of plants to be able to arrive at anything like satisfactory results.

My own experience with cinerarias, especially those sown early, say any time in June and for early flowering purposes, is that they require more care than most kinds of plants to pull them through the hot months of summer. It is a well known fact that cinerarias are very impatient of strong sun light, such as we get here in the months of June, July and most of August. And right here at the start of their culture we are presented with the conundrum: How can we artificially make this temperature that suits them best?

My method to suit them in this direction is simply to shade the glass with a thin coating of white paint; over this shading on hot, bright days I put a lattice shading. These lattice shades are made to fit over our sash (ordinary cold frame, or 6x3 feet). The bars run horizontally instead of crossing each other; they are 1 inch wide and 1/4 inch thick, the space between each bar being a trifle over 1/2 inch; the frames on which the bars are nailed are 1 inch square.

These shades I consider the best of all when shade is necessary, for the reason that they are movable in the first place and put on when really needed, and secondly, because they keep the glass cooler than any paint or canvass shading will do, thereby giving as near as possible the conditions most favorable to plants needing a shade.

I further lower the temperature by raising the sash at both ends by wooden blocks cut longer than they are wide and wider than they are thick, so that one block will raise the sash to three different heights as necessary.

Springing overhead in the morning and afternoon of hot, dry days is very beneficial to the plants under consideration.

Greenfly attacks these plants at all stages of their existence, but are easily got under by fumigation. When in frames outside I strew tobacco stems all round the pots in which the plants are growing and find no difficulty in keeping them clean in that way. In the greenhouse I seldom have to resort to any remedy for these pests, as they do not attack them much. To some this may seem strange, but the reason is quite plain, and nothing more or less in my opinion than that the cinerarias are kept in a temperature admirably suited to them, but less congenial to the greenfly, namely, 40° and 42° Fah. at night.

The soil I use for the cineraria in the early stages consists of one half leaf



CINERARIAS AT DR. C. E. WELD'S, ROSLINDALE, MASS. MR. KENNETH FINLAYSON, GARDENER

mould and one half good turfy loam with a liberal dash of sharp clean sand added. At each successive potting the leaf mould is withheld partly and the loam increased proportionately. The final potting soil consists of one fifth leaf mould, one fifth good rotten cow manure, the remaining three fifths turfy loam, very little sand, a liberal dash of fine crushed bones.

The stimulating begins when the pots in which they are to flower are well filled with roots; cow manure, liquid, I use frequently, but chiefly guano and soot in equal parts mixed. I put a large handful of the latter in a six gallon can of water and stir well with a stick to incorporate the stimulating ingredients in the water before using. I apply this dose once or twice a week as the weather demands; that is if the weather should be bright there is more demand on the water pot than there would be on cloudy days, therefore the stimulating must be regulated accordingly.

I use guano alone on most every kind of plants with the best results, and on gross feeders as cinerarias, calceolarias, chrysanthemums, etc., so apparently strong that it would make most cultivator's hair stand on end. K. F.

Jasminum Duchesse of Orleans.

This long neglected variety of jasmine is at last coming to the front again. It is a fine clean plant (with few if any insect

foes) to plant out in a greenhouse; it will bloom several times in a year, may be had in winter or in fact at any season, and when out of bloom the dark green, glossy foliage will attract the visitor's attention. If only one blossom on a plant should be opening, the whole house would be filled with its gardenia-like fragrance, so strong and penetrating is its perfume.

The flowers are pure white and freely produced from the ends of the branches, one branch bearing often as many as six to eight of them in succession. In size they are from one and a half to two inches across, generally perfectly round like a ball and so densely double that the center petals are never fairly developed before the outer ones begin to decay, although the individual flower lasts in perfection usually over a week in hot weather and much longer in winter or in a half shady position. When cut they will preserve their beauty and fragrance for a much greater length of time than a gardenia, which is too apt to fade and turn yellow.

Propagation is effected to my knowledge only by cuttings of the half ripened wood inserted in the sand bench, giving a slight bottom heat, and the young plants are at first rather slow to make growth. A great drawback to the universal culture of this by far the best of jasmines is that you have to wait several years for abundance of bloom, although one-year old plants usually bloom to some extent.

But after a plant gets fairly established and is growing freely flowers will also be quite abundant.

Almost any soil will suit the plant, though I prefer to mix one-third peat with it and think that the young plants at least show faster growth in the mixture.

Unfortunately there is not an overabundance of stock to be had anywhere, only a very limited number of plants grown in but few places either in this country or in Europe, but as there undoubtedly will be a demand for this good old thing before very long, probably we shall soon see them offered by the hundred.

Rochester, N. Y.

J. B. KELLER.

Hail.

The number of inquiries for information concerning hail insurance, and the recent rapid increase in membership is an indication that florists are coming to the conclusion that it is unprofitable to go it alone against hail storms.

The florist who procrastinates in this matter is treading on dangerous ground, and only those who are located where hail storms never come are absolutely safe from harm. However in two or three special instances we have known greenhouses to be demolished by hail in localities where their owners had previously declared "hail never came." The natural deduction is that the Florists' Hail Association is the only method of getting square with a hail storm.



Hinze's and Hill.

I picked this morning a handful of Hinze's White and E. G. Hill carnations and as the tendency with many growers at present is to give these varieties the cold shoulder I send them to you and allow you to judge of their merits.

I have a small bed of Hill that has been in fine flower all winter, in fact part of the flowers sent you were from a bed planted 18 months ago and which has been in continuous bloom since. Where are the Portias that will compare with them?

I find no trouble with Hinze's as to coming in crops, as I vary times of propagating and planting.

I also grow Lambert and find it very valuable. I believe no one white will fill the bill in every collection, some customers preferring one and some another.

My soil is light and sandy. Have had no trouble to grow good carnations except with Grace Wilder. L. L. BLAIR, Big Rapids, Mich.

[The flowers sent were certainly excellent.—Ed.]



Vanda Cœrulea.

This lovely orchid is often seen in bad condition I think through being kept in too warm a house. I find by experience that during the winter months they do finely in a temperature of 55° to 60° in a house well sunk in the ground and that is always charged with natural moisture sufficient for their wants without watering them at root only on very sunny days. When winter sets in I remove all potting material of sphagnum, etc., leaving the drainage and basket or pot only, hang them in the roof of a moist house, scarcely ever over 60° in winter. About the first of April I look them over, removing any drainage that is dirty, place a lot of fresh broken potsherds to round up from rim of pot, and over this place a thin layer of growing sphagnum which gives them a nice appearance. Water sparingly, or about enough to keep the sphagnum in growing condition, increasing the watering as the season advances. When fine weather is established ventilation should be given both top and bottom and kept open day and night. The plants should be well syringed once or twice a day. During the summer season the plants are grown 3 or 4 feet from the glass, on a bench over which is placed a rack so that circulation at both bottom and top is free. I find this rule of management is also good for Vanda Kimballiana and many of the erides. The V. K. I have grown much better with odontoglots from 45° to 55° than others in house at 60° to 70°. The plants were more robust and in every way better. Too much heat and moisture during the

dark winter days is very detrimental to many orchids, and I think the cause of spot and rot sometimes seen in collections. WM. MATHEWS.

News Notes.

PARKERSBURG, W. VA.—Robert, the 13 year old son of Mr. Adolph Hieble, died April 2.

HUNTSVILLE, ALA.—Think of everything here being frozen solid at date (April 5), with flurries of snow all through the day.

CHARLESTON, S. C.—The annual floral fair of the agricultural society will be held on the 23d and 24th of the present month.

GERMANTOWN, PA.—Wm. Woltemate, a member of the firm of Woltemate Bros., died recently and was laid to rest April 10. He was the youngest son of Henry Woltemate, one of the early florists of Germantown.

ROCHESTER, N. Y.—Mr. J. B. Keller will spend a few months in Europe this summer and will visit England, France, Belgium and Germany. He will start from home in June and will act as correspondent for the FLORIST while abroad.

PEORIA, ILL.—Easter trade much larger than last year. Supply of home-grown flowers larger and better. Retail prices some as last Easter. Ready sale for blooming plants. Increased call for loose flowers. Best Easter trade we ever had here.

EL CAJON, CAL.—J. M. Asher, formerly in the business at San Diego, which he gave up in 1884, has gone back to his first love and is now established as a nurseryman and florist at this place. Mr. Asher was the pioneer nurseryman and florist in San Diego county, starting business in 1869.

HARTFORD, CONN.—The largest Easter trade for many years. Supply of home-grown flowers better than last year, both in quantity and quality. Retail prices on spring stuff such as hyacinths, tulips, valley, narcissus, etc., were somewhat lower than last year, but good roses and carnations brought their own price. Increase in the call for loose flowers. More satisfactory than any previous Easter.

CINCINNATI.—The 30th monthly meeting of the Florists' Society was very well attended and some new names were added to the list of members. A committee was appointed to prepare a premium list for the coming chrysanthemum show. Mr. T. W. Hardesty read quite an interesting paper on the artistic arrangement of cut flowers. Business is very good and spring trade promises to be excellent.

CAMDEN, N. J.—Easter trade was very much larger than that of last year. One florist reports it as nearly double with him. Very good supply of home-grown flowers. Retail prices were about the same as last Easter on plants, a little higher on cut flowers. Increased call for blooming plants. Increased call for loose flowers over made-up work. Much more satisfactory than any previous Easter. Cut flower trade very good since Easter.

SYRACUSE, N. Y.—Easter trade was an increase of about 10 per cent over that of last year. Had a larger stock of home-grown flowers and they were of better quality. Retail prices were about the same as last Easter. Increased demand for

blooming plants. Tendency of demand is steadily in the direction of loose flowers in preference to made-up work. Sales fully up to the average in amount of stock disposed of with a tendency toward lower prices.

BRIDGEPORT, CONN.—Easter trade was about 25 per cent larger than last year, and supply of home-grown flowers was of better quality. Retail prices same as last Easter. Blooming plants were scarce and in less demand than last year. The call was nearly all for cut flowers. Best Easter trade we have had. Large demand for Bermuda lilies in pots at prices ranging from \$1 to \$1.50 each. The only trouble with this stock is that it is difficult to deliver in good condition.

Boston.

The market is heavily overstocked with roses at present, but at low prices they seem to be worked off fairly well.

Carnations of good quality are still scarce, and bring holiday prices. A new seedling carnation raised by Ernest Fewkes gives promise of being a valuable market variety. The blooms are very large and well formed, showing no tendency to burst, and the color, somewhat deeper than Grace Wilder, is all that can be desired. Blooms that had been cut on March 30 were shown on April 11 at Horticultural Hall, a pretty good indication of valuable keeping qualities.

Col. Henry W. Wilson's lecture before the Horticultural Society on April 11 on a trip to the Bahamas, was one of the most entertaining of the whole series. The colonel is a very interesting speaker.

James Comley exhibited a table of 75 hybrid perpetual roses, comprising 35 of the best varieties, all beautiful specimens. The Boston Horticultural Society turned up well at the spring exhibition of the New York Florists' Club, ten of them going over together on the Fall River boat.

The exhibition received unstinted praise, which it well merited, and the boys all felt that they had been fully repaid for the journey. W. J. S.

Shading Greenhouses.

In answer to subscriber, page 674, common gasolene is the best "thin." A lump of white lead the size of a hazel nut is sufficient for a gallon. This may be colored by the addition of a little pure chrome green if desired, and in the above proportion may be thrown over the glass by any syringe or pump. It may perhaps be necessary to use a long-handled brush dipped in lye to loosen it in the fall, when raining. JAMES MACPHERSON.

Trenton, N. J.

YOU CAN give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

Moles.

Will some reader of the FLORIST tell me the best means of getting rid of moles or ground mice? They cleaned out my cold frames the last winter.

Auburn, Me.

GEO. M. ROAK.

WHEN WRITING advertisers please say that you saw the adv. in the AMERICAN FLORIST.

APRIL 10 was arbor day in Illinois.



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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

April 22-23, Baltimore.—Spring show Gardeners' Club of Baltimore.

May 6-8, San Francisco.—Annual flower show California State Floral Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society.

November —, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore.

Catalogues Received.

A. Blanc & Co., Philadelphia, cacti; Kemble Floral Co., Oskaloosa, Iowa, plants; V. Lemoine & Son, Nancy, France, plants; McGregor Bros., Springfield, O., plants; Geo. L. Miller, Stockton, O., nursery stock; J. F. Sullivan, Detroit, Mich., plants; N. Steffens, New York, wire designs.

THE Gardeners' Club of Baltimore has issued an advance list of premiums for the fall exhibition and chrysanthemum show to be held next November. Premiums to the amount of \$654 are offered, of which \$441 is for chrysanthemum plants and flowers, \$116 for miscellaneous plants, \$83 for floral arrangements and \$41 for flowers other than chrysanthemums.

HINTS ON CACTI is the title of a little book sent us by A. Blanc & Co., Philadelphia. It is very liberally illustrated with engravings of the numerous forms of these interesting plants and is well worth a perusal. Mr. Blanc has done much to bring to the attention of the public the value of cacti as ornamental plants and his "Hints on Cacti" will undoubtedly be an important factor in strengthening their hold on popular favor.

A COPY of the Nursery-Book, by L. H. Bailey, has been sent us by the Rural Publishing Co., New York. It is a handbook for the propagator and gives short, concise descriptions of the various modes of multiplying plants. It is liberally illustrated and the list of plants is arranged alphabetically so that reference is easy. There are also ordinal and general indexes. It should prove a convenient reference book.

WREATHS of flowers now often take the place of crape as a badge of mourning, and purple crocuses are very useful for the purpose. The wreath is tied to the door bell with a bow of purple ribbon. These flowers are especially valuable for the purpose in frosty weather as they are not injured by a few degrees of frost.

IF YOU LIKE THE AMERICAN FLORIST give it your fullest support by confining your orders to those who advertise in its columns and mention the paper when ordering.

FROM Eberfeld, Germany, comes the statement that 300 gardeners are on strike.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a gardener with many 5 years experience in the different lines of the business. Address C. D. care American Florist.

SITUATION WANTED—As foreman in a first class nursery and greenhouse business, capable of meeting all demands. Through knowledge of the business. References. Address J. H. Florist, 122 Church St., Frankford, Phila., Pa.

SITUATION WANTED—By an experienced gardener, either commercial or private, location in New England States preferred. Can furnish first class references. Address E. care Wm. J. Stewart, 67 Bromfield St., Boston.

SITUATION WANTED—As gardener by an Englishman, understands growing grapes, peaches and all kinds of fruits, flowers, vegetables, ornamental trees and shrubs, also raising stock, wife good cook if required for a domestic, 4 years in America, private preferred, good reference. W. D. Postoffice, Minneapolis, Minn.

WANTED—A man, second place, who understands general greenhouse work, steady job for right man. Address A. B. care Am. Florist.

WANTED—To correspond with reliable party who thoroughly understands nursery and florist business, with a view of starting same near Baltimore and Philadelphia. Thriving town on Pennsylvania and B. & O. R. R. Address Box 60, Aberdeen, Md.

WANTED—At once a first class rose plant and cut flower grower, one who thoroughly understands the same, must be sober and industrious. State experience, references and wages expected; also a good practical second man. W. A. Bock, 31 North Ave., No. Cambridge, Mass.

FOR SALE—Eclipse Windmill, 12-foot wheel, in good order; 2000 gallon tank, fittings and all complete. Also force pump in fairly good order. Will sell all cheap for cash. Address 613 Congress Street, Portland, Maine.

FOR SALE—At a bargain, greenhouses and residence and two lots in Holton, Kan. Houses well stocked with roses, etc. 200 square feet of glass; new, only built last year. A bargain for a good home. Holton is a college town. The cut flower trade is good. For terms, write to Mrs. J. A. Thomas, Holton, Kansas.

FOR SALE—A rare opportunity to make money. For sale at La Grange, Ill., a greenhouse well stocked with roses, etc. 200 square feet of glass; one acre of ground. Excellent location. Will rent responsible party. For particulars, address Wm. W. Wainwright, Room 3, 302 La Salle St., Chicago. Telephone 2334.

YOU will benefit the FLORIST by mentioning it every time you write one of our advertisers.

WANTED—A FOREMAN.

Must have had great experience.

Best of wages to the right man.

ROSE GROWING must be his specialty. Our place is large, and only a man of large experience can fill the position. Apply, giving references, whether married, to

CHAS. F. EVANS,
 108 S. 12th Street, Philadelphia, Pa.

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LIMITED.

Kissena Nurseries, Flushing, N. Y.

offer

Rhododendrons

of American grown hardy sorts.

Hardy Azaleas.

For other rare and old plants see Catalogue.

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ROSES.

All the best varieties for forcing, and also for bedding out, in 2 and 2½-inch pots, \$4.50 per 100; \$4.00 per 1000. Own selection, \$35.00 per 100. Roses in 3, 4 and 5-inch pots at lowest rates. Also greenhouse and bedding plants.

Price list free on application.

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About April 20th we will be prepared to ship CAPE JASMINE and MAGNOLIA Buds in large quantities to any point in the North safely. Also Gray Moss, Magnolia Poliole, Cut Ferns, and a variety of other evergreens; also Magnolia seedlings and plants in any size. When you have a big decoration it will pay you to correspond with us. Prices on application. Give us a trial.

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All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

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WHOLESALE FLORIST & DEALER IN
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Store Open: Nights 9 P. M.; Sundays 2 P. M.

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Consignments Solicited. Special attention paid to
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G. E. & S. S. PENNOCK, WHOLESALE FLORISTS,

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CUT FLOWERS.

The Western Trade Solicited.
Write or Telegraph.
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CAPE COD PINK POND LILY.

For price list, Plants and Cut Flowers,
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Chipman Bros.,
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Wholesale Markets.

Cut Flowers.

BOSTON, April 13.	
Roses, Jacq.	5.00 @ 17.00
" Bon Silene	2.50 @ 12.00
" Niphetos, Gentians	2.00 @ 8.00
" Violette, Albany	4.00 @ 6.00
" Mornets, Brides	10.00 @ 20.00
" Perles, Sunsets	3.00 @ 5.00
Stocks	10.00 @ 25.00
Carnations	2.00 @ 3.00
Violets	4.00 @ 5.00
Valley	4.00 @ 5.00
Daffodils	4.00 @ 5.00
Tulips	4.00 @ 5.00
Harrisii	6.00 @ 8.00
Candium	2.00 @ 3.00
Spiraea	3.00 @ 5.00
Narcissus, white	2.00 @ 3.00
Magnolias	2.00 @ 3.00
Panicles	2.00 @ 3.00
Smilax	2.00 @ 3.00
Smilax	2.00 @ 3.00
Asparagus	1.00 @ 5.00

NEW YORK, April 13.

Roses, Beauties	10.00 @ 40.00
" Hybrids	10.00 @ 30.00
" Bon Silene	2.00 @ 3.00
" Gentians, Souys	2.00 @ 4.00
" Perles, Niphetos	2.00 @ 4.00
" Mornets, Brides	1.00 @ 5.00
" Wattlelilies, Cusins	4.00 @ 5.00
" Hosts	5.00 @ 5.00
" Jacq.	4.00 @ 10.00
" Wollons	5.00 @ 4.00
Valley	2.00 @ 3.00
Hyacinths	2.00 @ 3.00
Tulips, daffodils	2.00 @ 4.00
Carnations, long	1.00 @ 2.00
Smilax	2.00 @ 25.00
Violets	2.00 @ 3.00
Magnolias	5.00 @ 10.00
Harrisii lilies	5.00 @ 10.00

PHILADELPHIA, April 13.

Roses, Beauties	20.00 @ 40.00
" Brunners	40.00
" La France, Albany	5.00 @ 10.00
" Laines, Luzels	40.00
" Mornets, Brides	5.00 @ 10.00
" Wollons, Bennetts	4.00 @ 5.00
" Perles, Niphetos	4.00 @ 5.00
" Cusins, Wattlelilies	5.00 @ 5.00
Carnations long	1.00 @ 1.50
Wilders	4.00 @ 5.00
Valley	4.00 @ 5.00
Harrisii, long	10.00
Tulips	4.00 @ 5.00
Daffodils	4.00 @ 5.00
Adiantum	1.00
Smilax, scarce	25.00

CHICAGO, April 14

Roses, Bon Silenes	2.00 @ 4.00
" Perles, Niphetos	4.00 @ 5.00
" Mornets	4.00 @ 5.00
" La France	4.00 @ 5.00
" Brides	5.00 @ 10.00
" Beauties	15.00 @ 20.00
" Gentians	4.00 @ 5.00
" Bennetts	10.00 @ 15.00
" Jacq.	5.00 @ 10.00
" Albany	5.00 @ 10.00
Carnations, short	1.00 @ 1.50
Valley	4.00 @ 5.00
Candium	4.00 @ 5.00
Callas	10.00 @ 15.00
Harrisii	10.00 @ 15.00
Candium, short	4.00 @ 5.00
Candium, long	5.00 @ 6.00
Violets	2.00 @ 3.00
Tulips	3.00 @ 6.00
Smilax	20.00 @ 25.00

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GEO. MULLEN, WHOLESALE FLORIST.

Florists' Supplies Always in Stock.
17 FARMAN PLACE,
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Orders by Mail, Telegraph, Telephone or Express
promptly filled. Mention AMERICAN FLORIST.

WELCH BROS. WHOLESALE FLORISTS

165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other
flowers carefully packed, to all points in
Western and Middle States. Return telegrams sent
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WHOLESALE CUT FLOWERS AND
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THE WISCONSIN FLOWER EXCHANGE,
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20 West 24th Street,
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LILY OF THE VALLEY,

And the Choicest ROSES for the
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36 EAST 23rd STREET, NEW YORK.
[ESTABLISHED 1877.]
Price List sent upon application.

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No. 32 W. 30TH ST., NEW YORK.
Orders to be shipped will receive prompt attention.

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BURNS & JAYNOY, WHOLESALE FLORISTS,

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AND JOBBERS IN FLORISTS' SUPPLIES,
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Also entrance from Hamilton Place
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We keep a large supply of Fancies and Carna-
tions always on hand. Return telegrams sent
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SPECIALTIES:

ROSES, CARNATIONS AND ORCHIDS.

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The Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

The Government Seeds.

Under the appropriation act of Congress, from July 1, 1888, to June 30, 1889, the whole number of packages sent out was 4,852,512. Of this number 4,018,031 are vegetable and flower seeds, leaving only 834,481 of all other kinds, mostly under the head of field seeds. But among these 548,099 packages are turnip seeds! There are left only 150,910 packages which might possibly prove to be really of any value—about one-seventeenth part of the whole. And this agrees wonderfully well with what we have previously said in these pages, that if the government should appropriate \$5,000 for the Seed Division for its legitimate use, the dissemination of new and valuable seeds it would be ample. As far as relates to vegetable and flower seeds, we say, without fear of contradiction, that the Seed Division has never sent out a new and useful variety. In the nature of the case they cannot do so, since they procure their stock of these seeds from the seedsmen who have already put them on the market. In the very last report of the Secretary of Agriculture, 1889, correspondents who have received vegetable seeds report on the value of Early Mohawk and Early Red Valentine Beans, Danvers Yellow Onion, Champion of England Peas, the Deacon Lettuce, All Seasons Cabbage, and some others, all of which have been sent out by seedsmen, and most of them for many years. According to the tabular statement, Senators, Representatives and Delegates in Congress were given 3,732,132 packages, leaving only a little over a million to be sent to individuals, Experiment Stations and agricultural societies. And this explains why the Seed Division has grown as it has, and Congress is willing to make appropriations for it. Politicians own it and use it for their own purposes, while the original purpose for which it was established has vanished from sight.—*Vick's Magazine* for April.

[While this does not exactly tally with the recent article in the *American Garden* on this subject it is much nearer the practical truth as it comes from one who knows the seed business better than practical politics.—Ed.]

Government Seeds.

"About thirty bushels of wheat and garden seeds were sent into this State the past year from the Agricultural Department under the frank of Congressman Hansborough and Senator Pierce, which were a great damage to our people. The wheat, instead of being pure Saskatchewan, had no less than four different kinds in each quart package, also oats, barley, and cockles; hence it was a failure. The garden seed was too old and failed to grow. We do not know how far the influence of these seeds extended politically, but we do know that a good many of us were beaten out of a good garden last year, and have lost faith in the Agricultural Department; and members of Congress who have an ambition to succeed themselves would do well to put but little faith in the assistance they may get from scattering worthless garden seeds among

their constituents, and thereby bringing down wrath upon their devoted heads. We don't like to be humbugged at our own expense. Of one thing you can rest assured, the Farmers' Alliance of this State has got through making applications for seeds from this department, for we sometimes think their action was a plan to destroy our organization and build up the Republican party.—*No. Dakota Independent*.

Customs Regulations.

The remarks upon my communication in No. 148 of the *FLORIST* were impartial and to the point; the appointment of a General Board of Appraisers will, I believe, ensure that intelligent consideration of protests for which the Secretary of the Treasury was neither fitted nor had time to bestow.

I agree with you that the reasoning of the collector at your port was absurd, and indeed was in direct conflict with the decision of the Board of General Appraisers in the case which I furnished, wherein they said: "The importers intention is not material if the plants are of the kind specified, * * * * * as a matter of fact they are of a kind chiefly grown under glass," and the Board decided in favor of the importer.

Largely with you that the reasoning of the collector at your port was absurd, and indeed was in direct conflict with the decision of the Board of General Appraisers in the case which I furnished, wherein they said: "The importers intention is not material if the plants are of the kind specified, * * * * * as a matter of fact they are of a kind chiefly grown under glass," and the Board decided in favor of the importer.

R. C.

THE WIFE of S. Wilber, the well known seed grower of Mommence, Ill., died April 8.

CHRYSANTHEMUMS.

NEW SET.

Mistletoe, Mermaid, Eda Pass, Innocence, and a few of the others, any number of any variety, 50 cents each; \$5.00 per dozen.

SEEDLINGS.

Grown from my own seed, gathered from choice flowers fertilized by the Chrysanthemum Bee. Ready May 1st, \$1.00 per doz.; \$7.00 per 100.

CHOICE STANDARD SORTS

of over 100 varieties. Strong plants, good for cuttings for April and May propagation. From \$5.00 to \$10.00 per 100. Send for estimates.

FRED. DORNER,

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Mention American Florist

5,000 Hydrangeas.

Per 100
OTAKA, THOS. HOGG, ROSA, WHITE
FRINGED, 3 and 4 in. pots, 1 to 100.00 and \$5.00
CANN A Ehemann, strong plants, pot grown, 3.00
CLEMATIS, 5 best sorts, 1 year old, 20.00
CALLA, 800, strong plants, 4 & 5 in. pots, \$5 & 7.00

If wanted, speak quick.

PAUL BUTZ & SON, New Castle, Pa.

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LILY OF THE VALLEY

Very Strong Flowering Pipes.

Offers for the AUTUMN, in LARGE QUANTITY.

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LILY OF THE VALLEY NURSERY.

Large Silver Medal, Berlin, 1890. Bronze Medal, Hamburg, 1889.

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LARGEST COLLECTION OF CACTUS.

Do you want the

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ENVELOPES OF ALL KINDS.

Printing a Specialty.

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Samples and prices on application. When writing for prices, please state sizes and quantity wanted.



TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and
Requisites. They are the
best to be had. The
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mailed free to the
trader.

HENRY A. DREER,
Philadelphia

SPECIAL LOW PRICE

Lilium Harrisii and Longiflorum Bulbs

Having just returned from a trip to the Bermudas where I went to have a good look after the Easter Lilies, and having made arrangement with the largest growers of those beautiful bulbs for a large quantity of their crop, we are now able to offer good, healthy and pure bulbs—June and July delivery, at the low rate of:

1 to 5-inch circum	..... \$ 35.00
5 to 7-inch " "	..... 40.00
7 to 9-inch " "	..... 70.00
9 to 11-inch " "	..... 115.00

LILIUM LONGIFLORUM same price and same as above. Delivery in August. Please order before May and oblige. Yours respectfully,

HULSEBOSCH BROS.,

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BEDDING & PLANTS.

PANSIES, CALADIUMS, ETC.

Everything for Spring Planting.

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Growers and Wholesale Dealers.

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JACQUEMINOT ROSES.

Jacqueminot roses, six to ten inches high, from cold frame, \$5.00 per 100. Rooted coleus, Golden Bieder and verchafatti, \$10.00 per 100. Golden Verchafatti and Sunset, \$5.00 per 100. Ten varieties mixed, \$5.00 per 100. Heliotrope, fuchsia, Vinca variegata, \$1.00 per 100. All guaranteed to be good, strong cuttings, well rooted. Money must accompany orders, or shipments will be made on account.

JOHN RECK, Bridgeport, Conn.

ROOTED CUTTINGS.

LAST & ALL. Per 100 per 100
Alternanthera, red and yellow, 5.00 60.00
Coleus (Golden Bieder, etc., assorted) 5.00 60.00
" Golden Bieder alone 75.00 60.00
Verbena, good colors, nice cuttings 40.00 60.00
Carnation Hinge's White only, strong 75.00 60.00
Geranium Cole's Fete, nice cuttings 40.00 60.00
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Pansies, nice 40.00 60.00

JOHN J. CONNELLY, Bryn Mawr, Pa.

ECHEVERIA SECUNDA GLAUC.

Extra fine plants, - - \$4.00 per 100

Smaller plants, - - - 1.50 per 100

Please mention American Florist.

CHAS. HEINZ, SHARON, PA.

LAMBORN AND

OTHER CARNATIONS.

Rooted Cuttings and Plants now ready.

J. J. STYER, Concordville, Pa.

CARNATIONS, standard sorts,..... \$3.00

DAHLIAS, choice, selected,..... 8.00

BOUQUARDIAS, best kinds,..... 3.00

McCREA & COLE, Battle Creek, Mich.

Lock the door BEFORE the horse

is stolen. Do it NOW!

JOHN C. KILMER, Sec'y of the

Saddle River, N. J.

LILY OF THE VALLEY!

TRUE BERLIN PIPS.

3 yrs old, dormant, warranted in perfectly sound condition.

ONLY A FEW CASES LEFT.

Order now and keep in cool storage for summer use. I will close out remainder at

\$23 per original case of 2,500; two cases at \$45; single 1,000, \$10; per 100, \$1.50.

TERMS CASH FROM UNKNOWN CORRESPONDENTS.

A full line of Summer flowering Bulbs, Seeds, Plants and Florists' Supplies, furnished at lowest market prices. Catalogs free to applicants.

NEW ADDRESS, J. A. DE VEER,

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C. H. JOOSTEN,

3 Counties Ship, NEW YORK,

—IMPORTER OF—

Bulbs and Plants.

PRICES ON APPLICATION.

W. W. Barnard & Co.,

6 & 8 North Clark Street, CHICAGO.

SEEDS, BULBS, IMPLEMENTS.

Please write us if you fail to receive our trade list for Florists.
Illustrated Seed Catalogue mailed free to any address.

SPECIAL
Terms quoted to all
FLORISTS
who order their
BULBS
now for Spring and Fall use from
A. ROLKER & SONS,
136 West 24th St.,
NEW YORK, Station B.

Chrysanthemums.

Catalogue with description of my two new sets now ready. Sent on application.

The following varieties are offered at \$1.00 per 100 for cash:

KIOTO, L. B. BIRD, H. CANNELL, GOLD, PURITAN, GLORIOSUM, CULLINGFORDII, GRANDIFLORUM, M. E. NICHOLS, L. CANNING,

E. G. HILL.....\$4.00 per 100
W. H. Lincoln.....6.00 per 100
Avalanche.....8.00 per 100
Louis Boehmer.....5.00 per doz.
H. E. Widener.....1.50 per doz.

JOHN THORPE

PEARL RIVER, NEW YORK.

Mention American Florist.

Per 100

CHRYSANTEMUMS, Per 1000,

\$25.00, many choice varieties.....\$3.00

GERANIUMS, 10 to 20 splendid sorts.....3.00

ROSES, all the best standard vars., my selection.....4.00

VERBENAS, in good varieties.....2.50

ALYSIUM, dbl. white, nice young plts 3.00

CANNAS, in six splendid vars.....3.00

DOUBLE WHITE FEVERFEW, strong

2 inch, ready to shift.....3.00

HELIOTROPE, Garfield (best purple)

2½-inch.....3.00

SALVIA, scarlet, white, black & var 3.00

Address N. S. GRIFFITH,

JACKSON CO. INDEPENDENCE, MO.

(Independence is well located for shipping, being 5 miles east of Kansas City.)

CHRYSANTEMUMS.

Etoile de Lyon, (true).....\$5.00 per doz.

V. H. Hallock.....2.50 "

Louis Boehmer.....5.00 "

White and yellow, white and pink vars. for florists' use, \$5.00 per 100. Strong, healthy plants true to name.

W. TRICKER, Dongan Hills, S. I., N. Y.

Z. DE FOREST ELY & Co.,

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Carry one of the most complete and extensive stocks of GARDEN SEEDS in the United States. We make a specialty of GROWING PEAS and BEANS, AMERICAN TURNIP and CABBAGE SEEDS, ONION SETS and PURE SEED POTATOES. We cater to the Jobbing trade. WRITE FOR PRICES.

★ NOW ★ READY. ★

	Per 100	Per 1000
TUBEROSES, DOUBLE PEARL.....		
Fine Large Bulbs.....	\$1 00	\$ 7 50
GLADIOLUS, FINE MIXED.....	1 25	10 00
EXTRA CHOICE.....	1 75	15 00
SHAKESPEARE.....	7 50	

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Bulbs for Florists.

Dutch and Roman Hyacinths, Tulips, Narcissus and True Bermuda Lilies, (L. Harrisii) Special import offer for Fall and Summer of 1891 **NOW READY.** Do not fail to write for it. Liberal terms, fair prices, selected quality and square business treatment. Address

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and 246 North Broad St.

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Registered Cable Address, DEFOREST, Phila.

TELEPHONE 1298.

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— Facts —

We were the first to offer true, healthy, Lilium Harrisii at low prices. Florists showed their appreciation!

The bulbs gave satisfaction! Our stock, from same growers as last year, will be ready for delivery in July, it is first class in every respect and prices reasonable. — Send list of your wants for estimate, also of French and Dutch bulbs.

*Joseph Bruck & Sons,
57, 52 & 53 North Market Street, Boston, Mass.*

L. AURATUM, *

LARGE

L. RUBRUM, *

STOCK

SPIDER LILIES, *

SOUND

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PRICES.

"Book for Florists," J. C. VAUGHAN, CHICAGO.

Ready. Free.

THE PINK OSTRICH PLUME

CHRYSANTEMUM,

LOUIS BOEHMER.

— Fine Plants, \$5.00 per Dozen, Cash. —

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ROCKFORD, ILL.

CHRYSANTEMUMS.

HOLLIS' SEEDLINGS OF 1890.

Nine distinct and choice varieties. Prospective prize winners of 1891 need them. Best quality and lowest price.

35 to 50 cents each; \$3.00 for the set. Send for descriptive list.

GEORGE HOLLIS, South Weymouth, Mass.

COLEUS.

ROOTED CUTTINGS

Now Ready.

In all the leading varieties at 75 cents per 100; \$6.00 per 1000.

MRS. S. P. CUSHING, Weymouth, Mass.

Philadelphia.

Business has been fairly good since Easter. The crop of spring weddings was well distributed, and this with dinners, children's parties, etc., has kept the stock of flowers moving.

Quite a number of the trade paid a visit to New York to see the flower show of the N. Y. Florists' Club. It was a very fine show, an artistic success, and all left amply repaid for their visit, aside from the manner in which they were royally entertained.

The collection of baskets entered for the Jansen prize, twelve in number, were very handsomely arranged, and before the judges went around there was a number of opinions expressed as to which would be the winner. Among some dozen florists present the choice narrowed down to three or four baskets—it would be one of these, the others were not "in it"—but when the five ladies made their selection the premium card was attached to the very poorest in arrangement both of color and flowers were passed by unnoticed. We are almost certain that if the ladies had been asked to each carry a basket away with them the one selected by all would have been left on the table. Some things are past finding out, and this is one of them.

E. G. Hill and D. B. Long were in Philadelphia Saturday last.

Robt. Craig is erecting two large palm houses, and we hear of other additions among the trade in the near future. P.

Toronto, Ont.

The regular meeting of the Gardeners' and Florists' Club was held on the 8th inst. and was very well attended, in fact the attendance seems to improve each succeeding month.

The feature of the evening was a paper by Mr. W. Hill entitled "Plants most suitable for Easter." The discussion seemed to center round geraniums (cylisus) and Lilium Harrisi, the latter being unanimously acknowledged as the plant most suitable for Easter.

A telegram from Mr. John Young, wholesale florist of New York, to Mr. Dale, rose grower, Brampton (near Toronto), was read by the president: "Rosses finest in the world; send more to-morrow," and the applause which followed shook the building.

Mr. H. A. Bunyard, travelling for Messrs. Pitcher & Manda, was present, and after some pressing by the president delivered himself of a brief but eloquent oration pregnant with matter of interest to horticulturists which was received with vociferous plaudits by the assembled multitude and which being recorded in the minute book of the club will be handed down to posterity as a model of brevity, eloquence and deep thought for the guidance of our children and children's children.

The club is rather behind hand in the matter of its annual chrysanthemum show in November next, but the executive will take it in hand next week and hustle things generally in connection therewith.

Easter weather here was all that could be desired and florists benefited accordingly. Prices ruled about the same as last year, some lines perhaps a little higher. The supply was about equal to the demand except in Lilium Harrisi, which were backward this year owing to bad weather, late spring and early Easter. The volume of trade was undoubtedly larger than last year. E.

ROOTED COLEUS.

GOLDEN BEDDER, VERSCHAFFELTII, HERO, FIREBRAND, J. GOODE, YEDDO, KIRKPATRICK, GLORY OF AUTUMN, CHICAGO BEDDER,

75 cents per 100; \$6.00 per 1000.

CASH WITH ORDER.

STRONG ROOTED CUTTINGS.

FUCHSIAS.

STORM KING, CARL HALT, MINNESOTA, ELM CITY, MME. VANDER-STRASS, PURPLE PRINCE, PRES. GUNTHER, W. E. WAIT, DUCHES, OF ALBANY. Very fine plants from 2½-inch pots, \$2.50 per 100.

S. B. FIELD, Roselle, N. J.

Mention American Florist.

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COLEUS
CUTTINGS.

Golden Bedder, Golden Verschaaffeltii, Crimson Verschaaffeltii, Peter Henderson, Firebrand, Glory of Autumn, Sunray, J. Goode, Crimson Bedder, Sunser, Etc.

Ten strong Cuttings each, of above ten varieties, by Mail, One Dollar.

Twenty fine sorts, including above, five of each, by Mail, One Dollar.

Write or prices on larger lots by Express. Samples of the 20 sorts mailed for 25 cts. All cuttings strong and healthy, labeled, and well rooted.

ALEX. MCBRIDE, ALPLAUS, NEW YORK

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APRIL WHOLESALE. NOW READY.

The Largest and most complete TRADE LIST published in the United States, and what is more important to the florist, THE LOWEST PRICES. If you do not receive it regularly, send your address on a postal card to

McGREGOR BROS., Springfield, O.

Mention American Florist.

CARNATIONS AND SMILAX.

READY NOW!—A fine lot of MRS. FISHER at \$1.75 per 100 prepaid, \$15.00 per 1000. WM. SWAYNE at \$1.00 per 100. Other sorts later. See this ad. for prices.

SMILAX!—Once reset plants at \$6 per 1000. This is having a run, and deserves it. Samples for 10 cents.

FUCHSIAS AND VERBENAS.

Plants from trays (rooted cuttings once reset), a choice assortment, and a bargain at the price, \$1.50 per 100 for Fuchsias, and \$1.00 per 100 for Verbenas.

L. B. 338. ALBERT M. HERR, Lancaster, Pa.

CARNATIONS.

Silver Spray, Fred. Creighton, Golden Gate, Fair Rosamond, J. R. Freeman, Hector, Mrs. Fisher, Wm. F. Dreer, Chastity, Tidal Wave, Grace Wilder, L. L. Lamborn, Constancy, Edelweiss, Emile Louise Taplin, Angelus, Louise Porsch, Nellie Bly, Dorothy, Day Break, Nellie Lewis, and sixty other leading varieties. 100,000 ready now. Send for Price List, and secure your stock.

GEO. HANCOCK, Grand Haven, Mich.

Rooted Cuttings Carnations.

We offer EDELWEISS, a pure white sport of Chester Pride for the first time this season, @ \$1.50 per dozen; \$10.00 per 100. Send for circular of leading varieties and several new seedlings of merit.

W. R. Shelmire,
AVONDALE, PA.

CARNATIONS.
ROOTED CUTTINGS

of New and Old varieties at the lowest price possible to secure good stock from healthy plants. Seventy-five thousand will be ready by Feb. 1st. Send for catalogue or price list.

SEND ORDERS EARLY.
ISAAC LARKIN, Toughkenamon, Pa.
Mention American Florist.

Carnation Cuttings.

Boxed off and well established. Send for Price List.

DE WITT BROS.,
BRISTOL, PENNSYLVANIA.

LIZZIE MCGOWAN

AND OTHER CHOICE CARNATIONS.

ADDRESS H. E. CHITTY,
PATERSON, N. J.

ROOTED CUTTINGS
—OF—

CARNATIONS,

In great quantity, ready now.

JOS. RENARD, Unionville, Chester Co., Pa.

Carnation Cuttings.

5,000 L. L. LAMBORN

still left. Order at once if wanted.

"Wild" all sold.

WM. SWAYNE,
P. O. Box 226. KENNETH SQUARE, PA.

ROSES.

To florists desiring large Roses for spring sales in the most popular varieties we can not recommend the following list too highly. Our stock is extra strong from 5-inch pots—field grown and Plants are larger than those usually sold from 6-inch pots. We offer the following from 5-inch pots at \$25 per 100; 25 sold at 100 rates.

ETOILE DE LYON,
HERMOSA,
QUEENS SCARLET,
MME. ETIENNE,
MME. SCHWALLER,
MALMAISON.

DUCHESSE DE BRABANT,
THE GEM,
MME. JOS. SCHWARTZ,
LA FRANCE,
LOUIS PHILIPPE,
COQUETTE DE LYON.

We have a limited number of the following from 6-inch pots at \$35 per 100.

HERMOSA, ETOILE DE LYON, MADAME ETIENNE, THE GEM, QUEENS SCARLET, DUCHESSE DE BRABANT.

DUCHESSE DE ALBANY, 5-inch at \$25; 4-inch at \$35; 2½-inch at \$6 per 100.

ROSES FOR FORCING.

We have an immense stock of young healthy Roses for forcing made from growing wood.

PERLE DES JARDINS, PAPA GONTIER, LA FRANCE, CATH. MERMET, THE BRIDE, NIPHETOS.

Price from 2½-inch pots \$5.00 per 100, 3-inch pots \$10.00 per 100. All the standard bedding Roses at \$1 per 100, 40 per 1000. Send in your list to be priced.

ROBT. SCOTT & SON,

19th and Catherine Sts., PHILADELPHIA, PA.

ROSES.

We still have ready for immediate shipment, in excellent condition, a fine assortment and true to name:

50,000 ROSES in 2-inch pots, \$35.00 per 1000, our selection; \$40.00 per 1000, your selection.

Send your lists to be priced for everything in the FLORISTS' line. Satisfaction guaranteed. Catalogues upon application.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

ROSE Clothilde Souper, unquestionably the best pot rose in existence and profitable for cut flowers as well. There is more money in this plant for the retail trade than any other known variety. We are headquarters for it.

J. C. VAUGHAN, CHICAGO.

E. G. HILL & CO.,
RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAPLES:

ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for Florists.

E. G. HILL & CO., Richmond, Indiana.
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ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5- and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
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TWENTY THOUSAND ROSES.

Having purchased the greenhouses and stock from Oakland Rose Nursery we have a supply of 20,000 young roses all the leading varieties, which we will offer for Cash only, at

\$3.00 PER HUNDRED; \$25.00 PER THOUSAND.

Brides, La France, Papa Gontier, C. Mermet, Perle des Jardins, Mme. Hoste, Niphotos, Safrano, Meteor, Mme. Watteville, Marie Van Houtte, M. Niel, Duchesse de Brabant, Balto. Belle, Mme. Planter, etc. This offer good for two weeks only.

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Mention American Florist.

Waban Rose

READY MAY 15.

From 2½-inch Pots.		From 4-inch Pots.	
1 Plant, \$1.00.	250 Plants, \$60.00.	1 Plant, \$1.50.	50 Plants, \$40.00.
12 Plants, 9.00.	200 Plants, 175.00.	12 Plants, 15.00.	100 Plants, 75.00.
50 Plants, 30.00.	1000 Plants, 500.00.	25 Plants, 25.00.	
100 Plants, 50.00.			

The following Agents have been appointed to sell the Rose in the respective territories given below:

WM. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th and Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 683, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

EUROPEAN AGENTS: **WM. PAUL & SON, Waltham Cross, England.**

ROSES. * ROSES.

WABAN, SOUVENIR DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other NEW and Standard Varieties of TEAS; Hybrid Remontant, including HEINRICH SCHULTHEIS, which is by far the best early forcing Hybrid. This is the variety which MR. JULIUS ROEHRHS has forced so successfully for the past three years. Also all the best varieties of

HYBRID TEAS, CHINAS and BOURBONS.

For forcing, bedding, etc., etc., all of which I have an EXTRA fine stock now ready for shipping at prices as low as any one can produce such stock for. NEW PRICE LIST TO THE TRADE NOW READY.

JOHN N. MAY,

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ROSES FOR FLORISTS.

OVER THREE HUNDRED AND FIFTY VARIETIES ON SALE. Ready for Immediate Delivery.

We offer the largest and most complete stock of Roses in this country. Straight 2½-inch plants, propagated from well matured field grown plants, and grown in ordinary soil without manure or any stimulating material whatever.

Our Roses Resist Disease, Start Quickly, Grow Rapidly and Always give Best Results.

All the Newest and Choicest Roses for Sale and Bloom. The famous New American Pedigree Roses—Henry M. Stanley, Pearl Rivers, Mrs. Jessie Fremont, Maud Little and Golden Gate. If you want to buy Roses send your lists and have them priced. Prices low, according to value of varieties and size and character of order.

The New White Chinese Wistaria, the finest of all. New Chinese Double Purple Wistaria, very rare. Wistaria Sinensis, Magnifica and Frutescens. Fine Hardy Shrubbery, all varieties, cheaper and better than imported.

New Chrysanthemums, Harry E. Weidener, Ada Spaulding, V. H. Hallock, Louis Boehmer, Mrs. Alphaeus Harry, Kympha and 100 other new and best vars. for all purposes. THE BEAUTIFUL MANETIA VINE, new MOON FLOWERS, etc. Wholesale Price Lists FREE to Florists, Market Gardeners and Dealers only.

Address

THE DINGEE & CONARD CO., WEST GROVE, PA.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices Now Ready.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

SAN FRANCISCO, CAL.

Chicago.

A preliminary announcement of premiums to be awarded at the fall exhibition of the Horticultural Society of Chicago has been issued. The cash prizes offered foot up to \$2,135 and this will undoubtedly be considerably increased later by special premiums. Of the amount already offered \$668 is for chrysanthemum plants and cut flowers, \$475 for floral arrangements, \$174 for cut roses, \$68 for cut carnations, \$300 for miscellaneous plants, \$224 for miscellaneous cut flowers, \$100 for window gardening and \$110 for fruits. Copies of the list may be had on application to the secretary, Mr. Jas. D. Reynolds, Riverside, Ill.

Mr. George Schneider, president of the Horticultural Society of Chicago, has been elected a member of the board of directors of the World's Columbian Exposition. As he is a warm advocate of any measure tending to the advancement of horticulture his election to the board is of decided interest to the readers of this journal. Mr. Schneider is president of the Illinois National bank.

At the last meeting of the Florist Club a plan suggested by members of the Horticultural Society for the erection and maintenance of a horticultural hall was discussed at considerable length.

The Horticultural Society of Chicago held its regular quarterly meeting at the Palmer House last Saturday afternoon. Sixteen new names were added to the membership list, among the number being several of Chicago's best known citizens. Ways and means of securing the erection of a horticultural hall were discussed and it was suggested by President Schneider that a stock company be formed to erect such a building as would meet the requirements of the society, and he mentioned several possible sources of income which would materially lessen the expense of maintenance. A vacancy in the board of directors was filled by the election of Mr. J. W. Ellsworth. At the next meeting a paper will be read by Mr. J. A. Pettigrew, Sup't of Lincoln Park, upon a subject of his own selection and which will be announced later.

Philadelphia.

EXHIBITION ECHOES.

It is with sincere regret that I have read an article by E. L. in the FLORIST—under the above title.

I had the honor of being on the Committee of Arrangements and, with Mr. John Nisbit, was in charge of the cut flowers. In the performance of my duties I was at the hall while the flowers were being staged, as well as a great deal of the time each day and evening during the exhibition, and during all that time I did not hear the slightest intimation that any flowers exhibited were not grown by the person in whose name they were entered.

As far as I am concerned I will say that I never at any exhibition entered or displayed any plant or cut flower but what was grown in my own houses. The other growers exhibiting cut flowers were John Burton, Edwin Lonsdale, John Foulds, Coles & Whitley and H. E. Chitty. I do not believe that any of them were guilty of what has been charged.

JOSEPH HEACOCK.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

200,000 VERBENAS.

Plants, per 100, \$2.50; per 1,000, \$20.00; 5,000, \$90.00.
Rooted Cuttings, per 1,000, \$1.00; " 8,000, " \$35.00.

THE FOLLOWING UNSOLICITED TESTIMONIALS WERE RECEIVED IN FIRST MAIL TO-DAY, FEB. 20th:

BUFFALO, N. Y., Feb. 19th.—Received verbenas. They were very satisfactory. Thanks for goods sent and healthy stock.
CANTON, O., Feb. 18th.—Received verbenas in good condition except Cystitis (retailed). All the others are splendid.
ALEXANDRIA, VA., Feb. 19th.—The plants arrived yesterday in good condition. Thanks to you for your promptness and liberality.

SEND FOR PRICE LIST.

We have one of the finest and largest stocks of Verbenas in the country, entirely free of

RUST AND MILDEW.

Microscopic examination shows no trace of the verberna mite.

Our collection of sixty varieties contains the

Finest Old and New Varieties

fully as healthy as seedlings, and beyond comparison in color and habit. We are able to root 30,000 to 50,000 per week and can fill all orders in a reasonable time.

J. L. DILLON, Bloomburg, Pa.

VERBENAS.

—NOW READY.

General Collection 2½-inch pots.	Per 100	Per 1000
XX Mammoth Set.	1.00	\$2.00
And 25 other best sorts.	1.00	30.00
Rooted Cuttings.	1.00	10.00
General Collection	1.00	8.00
CULT'S Golden Verschaffeltii, Golden		
Bieder and Verschaffeltii.	1.25	10.00
And 25 other best sorts.	1.25	5.00
Heliotype, Rooted Cuttings, named.	1.25	10.00
Calceolarias	"	1.50
Ageratum	"	1.25
Salvia Splendens	"	1.25
Fuchsia	"	1.25
Pewee, The Gem, Rooted Cuttings.	2.00	
Begonia Rubra, Metallica, etc.	2.00	
Lemon Verberna, strong, 1 year old order.	4.00	
Vincas, strong, 1 year old	8.00	75.00
Ampelopsis Vitis, strong plants	8.00	75.00
Chrysanthemums varieties and prices on application.		

ROSES, extra fine plants. Perles, Mermet, Bride, Mme. Cusin, Mme. de Valenciennes, S. D'un Ami, Niphetos, Sunset, La France, Cook, Gontier, Bon Silene, Salsone.
Duchess of Albany 2½-inch pots 5.00 45.00
Mme. Hoste and Souv. de Wootton 6.00
Trade List of Florists' Stock Free.

WOOD BROTHERS,

(Successors to I. C. WOOD & BRO.) FISHKILL, N. Y.

VERBENAS.

STRONG ROOTED CUTTINGS.

clean and sure to please, \$5.00 per 1000.
CASH WITH ORDER.

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SEEDSMEN,

OF THE

UNITED STATES AND CANADA,

1890.

No one in the Trade can afford to be without it.

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54 La Salle Street, CHICAGO.

VERBENAS.

PERFECTLY FREE FROM RUST.

50 vars. new seedlings, Mammoth strain, per 100 \$1. per \$25.
Rooted cuttings of same, 100 \$1; 1000 \$9.
Fine stock Heliotrope, 2½-inch, \$3 per 100.
Primroses, double, 100 \$1.25; 1000 \$12.50.
single, per 100 \$5.00.
Geraniums—latest Novelties.
Lalania borbonica, 5-inch \$4.00, 4-inch \$3.00 per dozen.
Miscellaneous stock of all kinds.

ROSES.

Mad. Hoste, La France \$5.00 per 100.
Duchess of Albany \$7.00 per 100.
Gontiers, Perles, Mermet, Bon Silene, Brides, Niphetos and 50 varieties of monthly roses, \$4.00 per 100 or \$35 per 1000.
H. P.'s purchased on choice, \$6.00 per 100 or \$50.00 per 1000.
H. P.'s, our choice, \$5 per 100 or \$40 per 1000.

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

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VERBENAS. VERBENAS.

Absolutely free from disease, from 2½-inch pots, \$2.00 per 100; \$15.00 per 1000.

AMPELOPSIS VITICOLA, 2½-inch pots, \$1.00 per 100.
CYCLAMEN GIGANTEUM, Williams' finest strain, from imported seed, 2½-inch pots, \$6.00 per 100.
Address J. G. Burrow,

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DAISY SNOWFLAKE

Daisy Snowflake—This Daisy, if treated like Violets, will give splendid returns for all labor bestowed upon it. I grow it by the thousands and can not supply the demand for cut flowers, as it keeps fresh from 2 to 3 weeks after being cut, and then looks as fresh as other white flowers just cut. The flowers are borne on stout long stems, fine white and beautifully quilled, and average as large as a 50-cent piece; a great acquisition to florists.

Price, 81 per doz. free by mail; \$5 per 100 by express.
SEE WHAT F. J. KELLER SAYS ABOUT THIS DAISY:

ROCHESTER, Jan. 25th.

Daisy Snowflake is quite a useful flower both for floral designs and put in with cut flowers, and when tied up in small bunches they sell very rapidly with us for funeral designs. We use a great many in place of carnations as it is cheaper and covers almost the same space and keeps from considerable longer. Be sure and send me every Daisy you can cut, as I cannot get them fast enough for my customers. They sell at 1¢ the best cut flower, 10¢ because it keeps fresh for 2 to 3 weeks. I feel I can't say too much in favor of this useful flower.

Yours truly,

F. J. KELLER.

MISSION RIDGE GREENHOUSES,

CHATTANOOGA, TENN. Miss L. O. L. FRED. SCHNEIDER, DEAR SIR:—We received our Daisies yesterday and Daisies they are! Enclosed please find our check for \$2.00 for 100 more plants. Please send them as soon as you can, as we want to get them to bloom as well before Easter. Can you supply the cut blooms and at what price? They ship so excellent that we would like to get some for immediate use.

Very resp't
P. S. We add to our remittance, please send its value in Cut Flowers of the Daisies with shipment.

FRED SCHNEIDER, Wholesale Florist.
WYOMING CO., ATTICA, NEW YORK.

F. A. RIECHERS & SOHNE, Act Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.

Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.

See Wholesale Catalogue on application.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,
NEW ROCHELLE, N. Y.New and
Rare PlantsHardy
Plants.ORCHIDS
PALMS,
FERNS.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

Mention American Florist.

A FRESH CONSIGNMENT OF
MEXICAN ORCHIDSSuch as *Lelia anceps* (winter bloomer), *Lelia alba*, *Cattleya citrina* (extra fine), *Epidendrum vitellinum majus*, *Odontoglossum aureum* (true), *Odontoglossum maculatum*, *Oncidium ornithorhynchum*, etc., etc., at very low prices.

Write for price list.

FREDERICK MAU, South Orange, N. J.

P. O. Box 322.

Mention American Florist.

Order now for Spring Trade



JAPAN MAPLES, MAGNOLIAS,

Double-flowering Prun s,

Tree and Herbaceous Pæonies, Iris, etc. All hardy East.

NOVELTY, MINIATURE PINES AND CONIFERS FROM JAPAN. Catalogue free.

H. H. BERGER & CO., P. O. Box 1501, SAN FRANCISCO, CAL.

READY APRIL 10th,

MICHEL'S

PRICE LIST OF

PLANTS FOR FLORISTS.

Mailed free on application.

MICHEL PLANT AND SEED CO.,

St. Louis, Mo.

DRACÆNA INDIVISA.

From 2-inch pots, per 100 \$1; per 1000 \$25. From 3½-inch pots, per 100 \$5; per 1000 \$45. From boxes, once transplanted, per 100 \$4; per 1000 \$35.

GLOXINIA SEEDLINGS,

From strictly first class *Erecta grandiflora* type—all tigered and spotted per 100 \$5; per 1000 \$45. Ready for delivery April 1, '91.

JAHN BROS.,

Clark's Point, New Bedford, Mass.

Mention American Florist.

NOW IS THE TIME TO PLANT

HARDY WATER LILIES.

NELUMBUM SPECIOSUM.....	EACH.
" " "	\$1.00
NYMPHÆA ODORATA ROSEA.....	1.50
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Strong plants, will bloom this season. The above set for \$3.00 cash.

W. TRICKER, Dongan Hills S. I., N. Y.

CLEMATIS.

Large flowering. In 10 fine varieties, at \$3.00 and \$4.00 per dozen. The latter fine, healthy, home grown plants. Splendid roots.

CYCLAMENS—Giganteum and Persicum, strong plants, in bud and bloom, at very low prices, quality considered, \$1.00 per dozen; \$7.00 per 100.

YOUNG H. P. ROSES, from 2½-inch pots for nurserymen, suitable for planting out. Choice assortment, \$5.00 per 100; \$45.00 per 1000.

F. A. BALLER, BLOOMINGTON, ILL.



AIR-PLANTS, Decorative Size.

10 to 15 inches high, per 100, \$6.00.

ORCHID CANNA.

Per hundred, \$2.50.

BUTTERFLY ORCHID,

(Epidendrum venosum). Per 100, \$5.00.

EULALIA JAP. ZEBRINA.

Strong clumps of this elegant hardy Plume Grass. Per 100, \$5.00.

Send for large illustrated Catalogue.

REASONER BROS., Manatee, Fla.

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DRACÆNA INDIVISA

Selected, 3 ft. high, \$30 per 100.

Second grade, \$20 per 100.

These plants are very fine for vases and the centers of beds. Can be shipped safely by fast freight to any point in the U. S. Cash with order.

SCHILLER & MAILANDER,

NILES CENTER, ILL.

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CHOICE YOUNG STOCK FOR TRANSPLANTING.

Specimens for Lawns, Parks, Cemeteries.



EVERGREENS,

FREQUENTLY SHEARED AND ROOT PRUNED.

TWENTY ACRES devoted to the growth of choice Evergreens alone. Specimen Trees, Hedging, Dwarfs, for potting and Cemetery planting. The Trade supplied upon liberal terms.

THE WM. H. MOON CO., Morrisville, Pa.

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Orchids!

PLANTS AND FLOWERS.

Cheap as Good Roses

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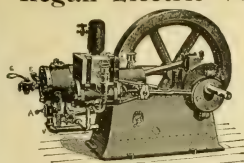
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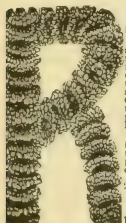
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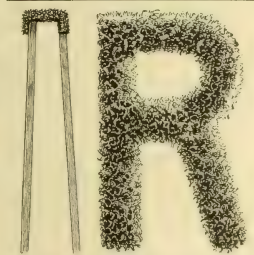
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Vol. VI.

CHICAGO AND NEW YORK, APRIL 23, 1891.

No. 151.

THE AMERICAN FLORIST

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LATEST ADVICES from Holland (Harlem, March 28) indicate much uncertainty as to prices for the 1891 crop of narcissus (which they predict will advance) as well as spinners and clematis. Some growers intimate that the prices of hycincinths and tulips will be about the same as last year.

You can give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

New York.

The Florists' Club's show, so anxiously looked for, is over leaving behind in the minds of the general public many pleasant memories, and in the minds of those in the trade a conglomeration of pleasure and disappointment with a flavor of animosity. It was undoubtedly the finest exhibition ever given here, anideal flower show.

Never was anything gone into with such a wave of enthusiasm and good feeling. It brought together all the long lost lords of friendship and tied them together in a circle of roses only to break again at their death.

All day Monday vans and wagons filled with floral beauty could be seen drawing a circle round the Lenox Lyceum. They came from far and near, from conservatories perched among the hills that line the Hudson, and from the commercial houses of the surrounding towns. At midnight an army of horticulturists and designers headed by John May and Ernst Asmus took possession of the different floors and by noon Tuesday the halls were transformed into a lovely picture. The exhibition was opened to the public at 7 p. m. on Tuesday and remained open till Saturday the 11th.

The entrance to the hall was handsomely decorated with southern shrubs and mosses which completely hid the ceiling and gave a tropical effect. Below this, ranged along the walls, were fine specimen conifers in pots botanically named. They were loaned by Messrs. Chas. Bird and Parsons. In the vestibule the same style of decoration was continued with fine vines embellished with smilax and asparagus along the walls. Here were placed some large specimens of cycas and palms. The top tier of boxes around the main hall was handsomely draped with southern smilax that blended well with the yellow plastic carvings beneath. Here and there a group of palms hung over adding an aredritic touch to the scene.

Immediately on entering the hall the visitor stood before a mountain of golden genistas exhibited by James Denu. On each side the entrance and arranged around the hall were the entries in the classes for palms and foliage plants, most artistically arranged by their owners. Messrs. Bonn & Dressell, Siebrecht & Wadley, Clark and Pierson. The next circle was composed of stove plants and ferns exhibited by Brett, Pursell, Bennett and Rose. The third circle of beds were the azaleas, hydrangeas and other flowering plants exhibited by Dean, Roehrs, Brett and Bergmann. The center was filled by some magnificent palms and dracenas exhibited by Bennett and Brett. Among these were some of the finest palms ever seen here and they formed a grand center piece for the exhibition.

The stage was turned into a bank of orchids exhibited by Pitcher & Manda and Forstermann. These were so arranged as to allow the visitors to feast their eyes on each specimen by being able to roam among them on walks lined on each side with fine specimen ferns in the midst of which a fountain of water rose high in the air falling over electric lights with many colored globes down to the water lilies and other aquatics below.

Standing here and looking back the scene was truly magnificent. At our back the jewels of the floral kingdom seen through the falling spray of the crystal fountain, at our feet groups of Adiantum Farleyense guarded by the whole family of adiantums, and far away spread before the gaze was a picture of beauty words are powerless to describe. Here groups of beautiful hydrangeas in every shade of pink, blue and white, there groups of palms soaring high above and waving their graceful arms over all, in some instances a fine nepenthes adding a graceful touch, and ranging far away were beds of glorious azaleas in every imaginable color, to where their soft snowy hues blended with the mountains of genista. Truly a valley of grace and beauty flanked by golden hills that seemed to reach the blue tinted dome, where many hundred electric lights shed their soft light upon the beautiful scene below.

Whatever may be said of this show it must be admitted by all that the plants and flowers and the general arrangements shown were the finest ever seen here, and much credit is due to Messrs. Dean, Bennett and Brett for their grand contributions to this display.

Turning through an avenue of palms the visitor descended to the lower hall. Here broad benches were placed around the wall upon which were placed the cut rose exhibits. This was the finest exhibition of cut roses ever seen here and perhaps anywhere else. Every rose at present in cultivation here was shown in perfection from Don Silene to American Beauty. Every rose grower of note was very creditably represented and many new roses were shown for the first time, a bunch of Waban exhibited by Mr. J. N. May attracting much attention. Another new rose shown by Mr. J. Roehrs named Jennie Dixon was greatly admired. It is similar in form and color to Countess of Oxford, but quite distinct and promises well. Among this collection was a bunch of flowers sent by H. Dale of Brampton, Ont. They were fine, the finest of their kind ever seen here. Another bunch of roses came from J. H. Dunlop, Toronto. These two lots of roses caused much comment and many decided to pay their home a visit on the occasion of the S. A. F. convention next summer.

Carnations came in from everywhere and they rivaled the roses in color and perfection. They were a great attraction.

There was warm competition in this class as a silver cup had been offered for the best new one. It was won by Sea Gull, a beautiful white carnation, strong, robust, symmetrical and with perfect calyx. Like the bird it is named after, it is bold and handsome; may it continue to win success and bring prosperity to its owner, Mr. E. G. Hill, of Richmond, Ind. Lizzie McGowan was its greatest rival and it took the judges a long time to decide between the two. There were



ARRANGEMENT OF THE HALL AT EXHIBITION
OF THE NEW YORK FLORISTS CLUB

very many beautiful new carnations on exhibition, an army of them, showing the present great interest in this beautiful flower.

Next came a circle of beds of herbaceous flowers, flowering shrubs, roses in pots, lilacs, cinerarias, herbaceous calceolarias, cyclamens and many other flowers in pots.

Inside this circle the retailers' exhibition was given. Dinner tables were set out, stands of bouquets, lines of baskets, funeral designs, etc. This portion of the exhibition was not what it ought to have been for a city like New York. The events in this department were so arranged as to give the retailers an opportunity of competing in all the classes, and make it an inducement for the public to visit the exhibition each day. Tuesday there were five vases of roses shown in three classes. Stumpff won first prize in the hybrid class with a green Moorish vase of 100 Baroness Rothschilds, and first in the Mermet class with a similar vase of 100 Mermetts. Dards won first in the tea rose class with a vase of 200 Cusins and Brides.

On Wednesday there were five competitors in the dinner table decorations, and in justice to the competitors it must be said that the tables supplied were the most inconsistent for an exhibition, being long tables 9x5 with a supposed capacity for twelve diners, they looked more like ordinary restaurant tables than tables intended to display the decorator's skill.

Stumpff won first prize in this class. His table was set for 12 in a service of elegant cut glass with two silver candelabra bearing pink shades adorning the center, between them was an oblong basket of Madam Gabriel Luize roses with no other green but their own foliage, and with buds of the same rose arranged between to give a natural and graceful effect. The ladies' favors were small English garden baskets, the handles of which were trimmed with pink ribbon. A small Adiantum Farleyense was placed

in the center of this basket, one fine Luize rose, then a bunch of moss roses drooping over the side. The gentlemen's boutonnieres were composed of four Lizzie McGowan carnations pressed into one.

The second award was given to Le-Mout who had decorated his table with a mound of ferns and spring flowers.

The Ellis Co. got third on their table, which was decorated with violets and Baroness roses and plates of violets for ladies' favors.

Herman Kuhn had a table which was handsomely decorated with Baroness roses, but unfortunately he introduced a novelty in draping his table around with garlands of smilax.

Stumpff was awarded first prize on wedding decoration. This was an original design. It was composed of an arbor of graceful palms behind which stood a large mirror. In front of this mirror were hung three porcelain Japanese vases filled with A. Farleyense and orchids. At the entrance to the arbor was placed a kneeling bench and altar rail over which was thrown an embroidered satin cover. On the right of this stood a tall Moorish vase in which 300 Bride roses were arranged. A garland of these roses fell carelessly but effectively over the rail. On the other side stood a group of Merveille de Lyon roses in pots, surrounded by ferns and foliage plants. Beneath the palms and forming an arch over the rail were bougainvillea vines in bloom, the color of which being light lavender, contrasted well with the white roses below. There were several entries for the bridal bouquet, which class was also captured by Stumpff with a bouquet of lily of the valley and orange blossoms; Foley coming in second with one of valley and narcissus.

The greatest competition was when the Jansen basket came up. There were twelve exhibits in this class, which was a small handle basket to be filled in any way the artist desired. There were many elegant baskets made, but the poorest of them all was awarded first prize. Why, no one knows, but this along with other decisions that seemed unexplainable caused much bitterness and kept many from competing afterwards. Who are the best judges of flowers? The people that grow or the people that buy? Who are the best judges of floral art? The woman who once in awhile buys a cheap basket or the man who has made it a life study? These were questions that one could hear after the decisions were rendered, and surely no one outside the judges themselves agreed with some of the decisions given.

On Thursday there were more baskets of flowers in several classes. The first prize was awarded to Alex McConnell, the best basket of orchids to Siebrecht & Wadley, the best vase of 100 Jaqs to Chas. A. Dard.

On Friday funeral designs were shown. Foley won first on the original standing design. It was a candelabra made of natural flowers. There were many other designs, but none worth special mention.

The mantel decorations, of which there were two, were very poor and unfit for presentation at such an exhibition.

There were two competitors in the drawing room decoration, Stumpff and Warendorf, but the same principle prevailed as in the Jansen basket affair, and Warendorf got first. This decision raised a storm and was ignored by all who frequented the rooms. In Stumpff's decoration the finest material obtainable was used and artistically arranged; in Warendorf's the most common things were used. Just imagine a fine drawing room where the gas fixtures were completely covered with southern smilax and underneath a table of southern smilax, a mound of Lilium Harrisii, the corners of the room filled with nothing but southern palm leaves stuck in moss. It was one of the most absurd judgments ever known.

Such judges should be avoided, for in addition to showing a lack of good taste and refinement they create bad impressions on the minds of the trade and fill all with disgust.

All in all this exhibition was artistically the finest ever held here, but owing to some cause—some attribute it to management, others to ladies connected with it—it was a financial failure. The advertising part was miserably conducted, the papers consequently ignored it, which resulted in a poor attendance and an empty treasury.

The exhibition was attended by many prominent members of the craft from distant cities.

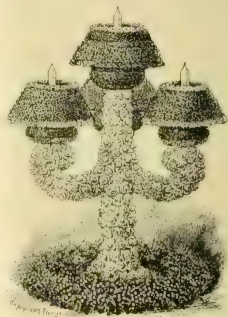
JOHN YOUNG.

New York Parks.

ED. AM. FLORIST.—The strictures of your New York correspondent on the floral decoration of our parks do not seem to me to be quite just.

As one who has enjoyed the park plantations (though without further interest in the matter) permit me to say that considering the means at the disposal of Superintendent Parsons it would seem to some of us that a very good showing and continual progress has been made.

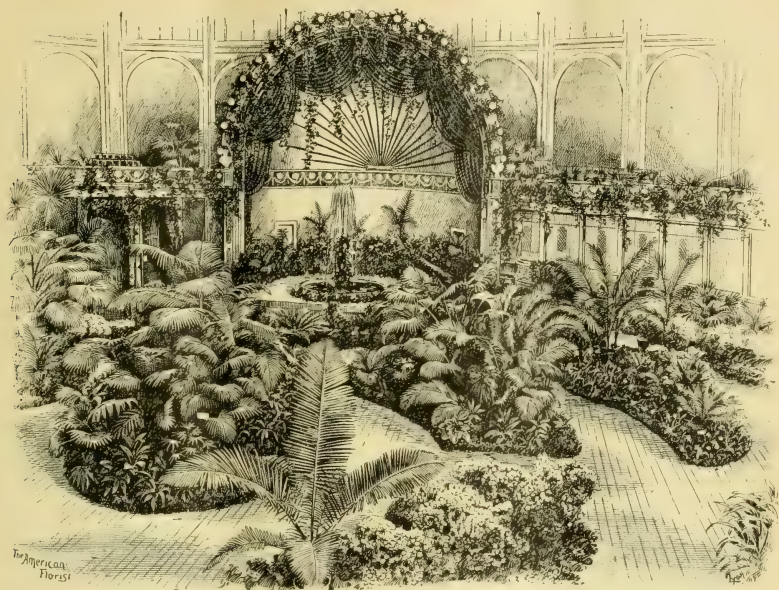
In the smaller parks I find beds of spring blooming plants, pansies, Bellis perennis and Dutch bulbs, and these are



FUNERAL DESIGN SHOWN AT THE NEW YORK
EXHIBITION

usually followed by showy foliage plants, acalyphas (largely used), coleus, geraniums, etc., and in all basins a good collection of aquatics. In Madison Square aquatics are omitted as this park is especially a children's play ground.

In Central Park the Nelumbium speciosum is being naturalized in the lakes. Much use is made of bedding plants, while planted along the east and west drives and in suitable locations is one of the largest collections of flowering shrubs



VIEW AT THE EXHIBITION OF THE NEW YORK FLORISTS' CLUB.

and hardy herbaceous plants in the country. From the nature of these of course many visits during the season would be necessary to note them properly as they come into bloom. Of course if the seasons were accented by great masses of plants, as rhododendrons for instance, it might be a great gain, but any one who is aware of the great care, expense and storage room required for a representative collection (as Mr. Hume's collection for example) must be aware that such effects are quite beyond allowances made for park purposes. On enquiry I find several hundred thousand hardy and some half a million bedding plants are being propagated this season.

While it is the wish of every flower fancier that the list of park plantings could be increased, yet when it comes to the matter of detail it will probably be found that even an enterprising New York Florists' Club will be unable to agree to advise many additional available plants especially for the smaller parks.

J. N. GERARD.

The Conservatories of Chas. Dissel.

Just out of the "Quaker City" amongst the rolling hills and densely wooded ravines of the Keystone state are situate at Wynwood the residence of Chas. Dissel and his conservatories, which latter under the guidance of David Emory and his

careful gardening has made it the leading place in this section, and thoroughly captivated the interest of his employer, who is as well posted on things horticultural as one would wish.

The conservatories though not extensive as some, are replete with all the good things a greenhouse should contain, from the exalted orchid to the (now) "humble" perlargonium.

Great care and discretion has been exercised in planting out the center bed of the main house, both for general effect and usefulness. That distinct palm *Phenacophorum sechellarum* always asserts itself and is a fit companion for *Vershaeltia splendida*; scarcely equalled for this work they are of little use for "house decoration" on account of their tenderness.

Standing over a pool of water in the center of the bed where gold-fish disport themselves, and "water lilies grow" are two fine specimens of that beautiful gymnogramme, *G. schizophylla* and other moisture loving plants.

Growing like so much corn is the peer (in my estimation) of all foliage plants: *Heliconia aurea striata*, and as the name describes, it is striped with gold from the midrib to the edge of its large lanceolate leaves.

Aralia rubra (new) and *A. filicifolia* (fern-leaved), are both very pretty and appear to like the liberty accorded to their roots, as do the many other foliage

plants, as dracenas, crotons, dieffenbachias, anthuriums, etc.

Amongst all this wealth of foliage, and standing out in both relief are the immense bracts (2 feet across) of *Poinsettia pulcherrima* and its variety *plena*, also the long (12 to 18 inches) scarlet racemes of *Euphorbia jacquiniiflora*, both good for cutting, the latter especially so.

Orchids are a leading feature here, and Mr. Emory succeeds well in his efforts to improve each new leaf and bulb made. The *phalenopsis* fully sustain their reputation as "king" of this "order" here; their "subject" says that he has fed them during the growing season with a liberal supply of dissolved cow manure, and if their present appearance vouches anything, I should say it is the right thing to do. The lovely mauve *P. Schilleriana*, the pure white *amabilis* and *grandiflora*, also those unique and pretty varieties, *P. Sanderiana* and *Stewartiana* are all heavily laden with a profusion of well-formed flowers, and at a marketable value would go "way up."

The cattleyas and *lælias* have well repaid any little extra care, and I noted some remarkably fine varieties. *Angraecum virens* and *A. sesquipedale*, the latter particularly attractive with its immense fleshy flowers of waxy whiteness.

A grand form of *Dendrobium Wardianum*, the pure white *D. Dearei*, and *D. formosum* giganteum with flowers as

large as an ordinary cattleya, also the useful *D. noble* are the best of this section now in flower.

Cypripediums are favorites here and the varieties with mottled and tessellated foliages, like *C. Lawrenceanum*, *Hookeri*, *Argus*, *barbatum*, *Veitchii*, etc., show to what advantage these pretty little subjects can be used when stood amongst choice ferns, and foliage plants and where shade does not materially interfere. Varieties of insignie, *C. Harrisianum*, *Curtisii*, *bellatulum* and that continuous bloomer *C. Sedeni* were amongst the many in flower.

Celecyne cristata, many *oncidiums*, *odontoclossums*, etc. are in flower and many other species and varieties give great promise.

Another feature here is the standard abutments with 4-foot stems and heads quite three feet and blooming profusely. Mr. Emory says they are struck in March and potted on continually till they reach their present size. The variety tall they reach the Golden Fleece Fire Ball and the cold white. The standard *heliotropes* which match the foregoing in size are treated similarly.

In the stovehouse are good examples of *Geonoma gracilis*, *Davallia Mooreana* and the beautiful *Cyathena dealbata* with silver under foliage.

Among the display of "Pelars," primroses, "Cinners" and "bulb stuff" are what one rarely sees in the American garden. *Lachenalia*, very useful at this time of the year for greenhouse decoration and are easily handled; *L. pendula* with its spike of drooping carmine flowers is the best and most useful.

Lapageria rosea and its variety *alba* as seen here do well, and bloom profusely if planted out in a house with a temperature of 55° to 65° or less; if planted side by side and allowed to intertwine the effect is very pleasing.

A plant of *Musa* recently grown from seed last spring and planted out in the house measured 5 feet 9 inches in circumference at the base; would that money would grow as fast.

February. THE DRUMMER BOY.

Platyceriums.

The *platyceriums* or Stag's Horn ferns form one of the most distinct and interesting groups that are found in all the vast fern tribe, and are certainly worthy of more extended recognition than they have thus far received.

Of course it is well understood that they are not likely to become just the plants for every one's local trade, but at the same time there are some of them that will stand considerable exposure without much injury, and they are all admirable for greenhouse decoration, providing the conditions are such as would be favorable for fern growth.

The members of this genus are epiphytically in habit, and for this reason are most happy when grown either on a section of a tree fern stem or block of wood or in a basket, though this treatment is not absolutely essential for all, as some of the species can also be satisfactorily grown in pots.

But in either case the potting material must be of an open, easily drained character, the best soil being rough, fibrous peat, or peat and sphagnum, and as such soil soon dries out frequent waterings will be found necessary.

In order to keep the foliage in good condition it is best to keep the water off the leaves as much as possible, especially in the winter, as at the latter season these may soon be discolored.

The propagation of the *platyceriums* is not a very rapid process, and depends on two methods, viz.: either by means of seeds or spores, or by the production of young plants or suckers from the roots, the latter practice being common to most of the species, and the young plants so produced being readily separated from the parent plant after they have made one or two fronds. If spores are resorted to they should be sown as soon as possible after they are gathered, using a coarse compost of peat and sand on which to sow them, and keeping them moderately close until they show signs of germination, after which they need rather careful watching in order to prevent them from damping off.

The spores of these plants are somewhat slow in germinating at best, and it seems a rather uncertain operation too, but the only safe plan is to give them a fair chance and not to empty out the seed pots in disgust within six months after sowing.

The first species in cultivation and doubtless the most widely known is *P. alcicornis*, the common Stag's Horn fern, which was introduced from Australia about the beginning of the present century. In common with the other members of the genus this plant has fronds of two very different types, the barren ones being more or less flat and shield-like, while the fertile leaves are upright in habit and deeply cut into such long, narrow lobes as to clearly indicate the reason for its ordinary name, the ends of these lobes drooping over in a very graceful manner. This is probably the most hardy member of the genus, and can be readily grown in a night temperature of 50 degrees.

A considerable improvement on the above is a specimen plant was sent out some years ago in the form known as *P. alcicornis* major, this being of much stronger growth and more upright than the type. The fronds of this variety are of thick leathery texture, and very dark green in color, giving the plant a very attractive appearance and making it also one of the best exhibition ferns in cultivation.

Probably the most noted species is the one of which an excellent illustration appears in the present issue, *P. grande*, the specimen shown being a well-known example at Horticultural Hall, Fairmount Park, Philadelphia, from a photograph taken some time ago.

The barren fronds of *P. grande* are very large and almost erect, and are deeply cut into spreading divisions, while the fertile ones are thrown out at almost a right angle to the first, being from three to six feet in length in a large plant, and are deeply divided into long pendent segments.

The spores of *P. grande* are produced in a large irregular patch at the base of the segments noted above, and in general appearance bears some resemblance to a patch of brown fungus on the under side of the frond.

I have never seen this species produce any young plants from the roots, but have raised it from spores though experiencing some little difficulty with the young plants when they were first potted off, from their susceptibility to "damping" at that stage.

Another remarkably handsome species is *P. Willinkii*, a warm house plant from Java, introduced some fifteen years ago. This is of smaller growth than the preceding the barren fronds being erect, rounded at the base and cut into lobes.

These fronds are somewhat ephemeral in character, or rather in substance, and

seem soon to have fulfilled their office, as they turn brown and dry in a short time after they are developed, whereas the fertile ones will endure for a year or more. The latter are produced in threes, attaining a length of three feet or more, are drooping in habit and are sometimes forked into perhaps the most perfect representation of a stag's horn that is to be found in the vegetable kingdom, while the color is grayish white, this being caused by the fronds being closely covered with whitish scales.

Other fine species are *P. Hillii* and *P. aethiopicum*, both of which are strong growers and remarkably handsome, but possibly not quite so readily procured as those mentioned above.

In addition to those already alluded to there is one other species that is sometimes catalogued, though probably not in cultivation, and from description is the oddest of this odd genus, as it has in addition to these two forms of fronds common to the family a special fertile segment or frond, the latter being kidney-shaped and six inches or more in breadth and thrown up on a stalk.

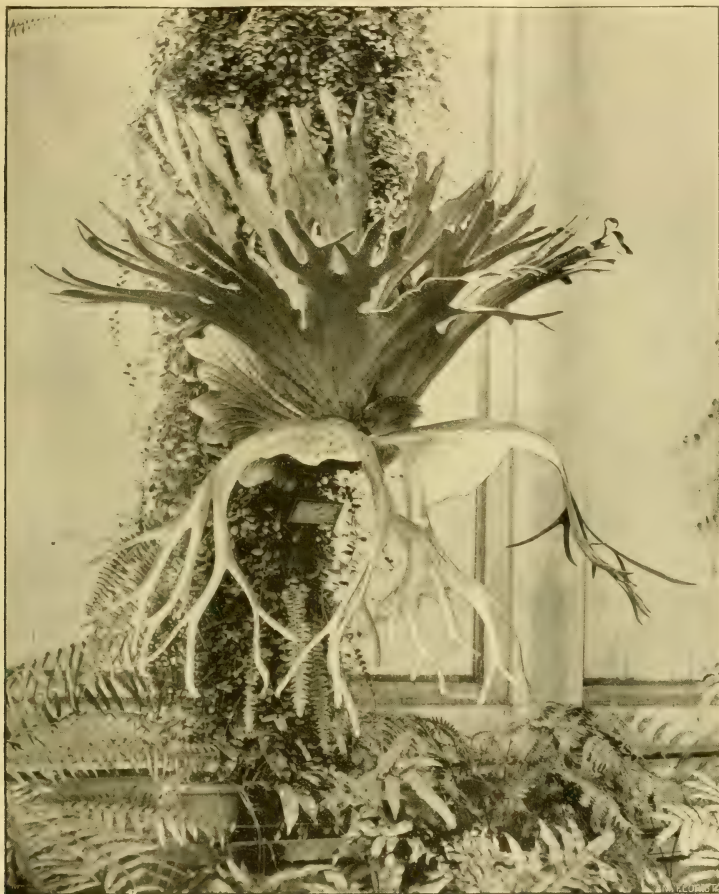
W. H. TAPLIN.

New York.

Business is rather quiet for this season of the year. The usual exodus to Europe is going on, but there are very few flowers used. "Steamer work," once the most profitable part of the season, is fast dying out, people nowadays make very little ceremony about going to Europe.

The warm weather of the past week has brought out an abundance of flowers. Some of the trees are bursting into leaf and in Central Park the forsythias and deutzias are in full bloom. Paeonies have made their appearance and sell well. Bulb stuff is very soft and will soon be over leaving a better field for roses. Violets are plentiful and are getting small as their season draws to a close. Jaeps have been poor so far. Hybrids are plentiful. According to present prospects this will be a good season for outdoor flowers. The lilac bushes and other flowering shrubs are showing fine things. It is said that bulb stuff will be scarce next year, as the very severe winter they have had in Holland destroyed the greater part of the bulbs there.

New York has a new plant market. The "Union Square Flower Market" is called. Heretofore it was held at the foot of Spring street round one of the small squares that dot the city. The present project has been met with a somewhat subdued growl from the retailers who promise to compare with a lion's roar should the affair infringe on the retail trade. It is the aim of several "Dailies" here to get up a flower market same as those in the principal cities of Europe. This is all very fine from the public's side, but would it benefit any portion of the trade? The present market is only for plants which have to be cleared away by 7 a. m. Visiting the square on Saturday morning I found a good many wagons there unloading. The plants were poor with very few buyers in attendance; the trade seemed to have boycotted the new market. Union Square is more central and better adapted for a flower market than was the old stand and if the growers have any sense they will not ignore the wishes of their old friends the retailers. It is all very fine for the newspapers to picture the grower selling to the retailer to "sassify" to holes and the public in general, but is doing so they (the growers) injure themselves. The idea of hanging



SPECIMEN PLANT OF PLATYCERIUM GRANDE. (STAG'S HORN FERN)

around all day selling to and arguing with old women is not pleasing to the business man who wants to sell out and return to his greenhouses. Why should the future of New York's plant trade and it is a very important one, be left in the hands of very important and ignorant journalists? Ignorant because they know nothing of plants and the requirements of the trade. Why don't the growers and retailers meet and adopt measures that will benefit both? Will the growers and retailers who do business in this city ever

see the beauty, the necessity, of some organization where the interests of our business could be seen to without interference from outside? It is true we have a Florists' Club here but it is not what it ought to be. We want an institution where the whole trade can be brought in and its interests advanced. We want an organization composed of everybody in the trade.

Flower show gossip is still going round. Philadelphia only echoes the opinion of New York regarding some of the awards.

There can be no excuse only an ignorance of art, a lesson to all future committees in all cities. The only judges of true floral art are the people engaged in the business. The club will meet on the 20th when an investigation will be held. Mr. Lawrence Hafner, for many years connected with W. H. Brower, corner of 23rd street and Broadway, will sever connection with that house on May 1 and open the store at 915 Broadway as a first class cut flower establishment. It is a fine store in a good locality and with the

talented and popular Larry Hlafer in it there will be room for nothing we hope but prosperity.

John Muller, wholesale florist of West 30th, has sold his business to Mike Hart, the famous peddler.

The Klunder Co., with very little Klunder about it, is reported to have transferred its stock to a Mr. Nixon, who has removed from Klunder's old store to one at 41st and Fifth avenue.

Mr. W. S. Allen has made an assignment, but continues in the business as agent. Mr. Allen has always taken a leading part in all matters horticultural and has many friends who sincerely hope his troubles will be light.

The wedding decorations for the marriage of Miss Dillingham were very elaborate, the whole house being very artistically decorated with palms and flowering plants. The bridal bouquet was of lily of the valley, the bridesmaid's of catteleys. A canopy placed in the center of one of the rooms was very prettily draped with lilac and Bride roses.

The nuptials of Applegate and Demorest gave our fat friend, Chas. Doran, a chance to display his skill. The whole of the house was here also handsomely decorated. The bridal canopy was made of *Asparagus plumosa*, which was covered with lily of the valley and edged with American Beauty roses. The curtains, mantels and corners were decorated with asparagus and garlands of roses whilst above the doors were placed such designs as lover's knots, hearts, horse shoes and cupid's little bow and arrow, etc., made of carnations and roses. The bridal bouquet was one of the latest fads, made in seven sections which were afterwards divided among the bridesmaids. Each section contained two dozen valley and half a dozen orchids. JOHN YOUNG.

Boston.

The orchid houses of F. L. Ames, Esq., at North Easton are full of beauty just now.

Both odontoglossum houses are in full bloom. They are a wonderful feast for the eyes of any lover of these chaste and graceful flowers. A pure white *Odontoglossum Pescatorei* is at present one of Mr. Robinson's particular pets.

But the rarest and most surprising plant now in bloom is a piece of *Cypripedium Lawrenceanum* var. *Havatum*. The plant has a constitution like the type, the flower standing out bold, but the most astonishing fact about the bloom is its color, which is a green of rare beauty, and can be compared to nothing nearer than the flower of *Crologyne pandurata*.

Several other remarkable cypripediums are in bloom in the same house. Most noticeable perhaps are very large specimens of *C. caudatum*, *C. Morganae* and *Wallacii*.

There is a grand plant of the beautiful pure white *Cattleya Trianae* bearing several blooms.

Over at Mr. Gilmore's there is a house of *Cattleya citrina* actually bristling with buds and yellow blooms suspended from splendid healthy plants. Mr. Greaves has reason to be proud of his success.

The cut flower market is in its normal condition for April. Most noticeable is the enormous quantity of roses of all kinds which are coming in. All indications point to an early spring.

The 15th of April was a memorable day at Waban Conservatories. On that day the famous new rose "Waban" was given to the world. The plants were in first

class condition, which is not always the case with novelties of this class, and now that the rose has been distributed it seems fitting that a word of commendation should be said for the man who has had so much responsibility on his shoulders in protecting and growing the plants, but for whose keen eye the rose would probably never have been discovered, and who during all the discussion and advertising has kept modestly in the background, Mr. Alexander Montgomery, our foremost rose grower. It is fortunate for a new rose when it gets into such efficient hands and there is no doubt that should Mr. Montgomery be fortunate enough to strike another new one in the future the recollection of the conscientiously grown plants he has now sent out will prove a valuable record for him.

W. J. S.

Chicago.

The liberal list of prizes offered by the Horticultural Society for the fall exhibition is stirring up the growers and preparations are already being made to grow "exhibition plants."

Mr. J. C. Renssion, of Sioux City, Ia., spent a day in the city last week.

A statue of the great naturalist Humboldt is to be erected in Humboldt Park.

Ground has been broken for the new palm house at Lincoln Park. The new range of greenhouses is now in complete working order and the old greenhouses have all been torn down with the exception of the old palm house. The new range of glass is heated by steam and the heat in each house is regulated to a nicety by an electric apparatus which acts upon the valves in the heating pipes. There is a huge cellar under the entire plant which makes a splendid storage place. The greenhouses rest on a deck of 3-inch narrow planks of white pine, walked in the same way as a ship's deck, so as to prevent drip into the cellar.

Superintendent Pettigrew will make an hardy herbaceous border one of the features of the park in the future. He is very enthusiastic over this form of park ornamentation and this will probably be the subject of the paper he will read before the next meeting of the Horticultural Society.

There will be numerous additions to the contents of the ponds of aquatics the coming season. Among the novelties will be a double flowered form of the native *sagittaria*. On the margin of the ponds Mr. Pettigrew has naturalized a colony of *sarracenia* which he gathered while on a botanizing trip in Wisconsin. It is certainly pleasing to see our beautiful natives utilized in this way.

Mr. Frederick Law Olmsted and his assistants are busily engaged perfecting the details of plans for the grounds of the World's Fair. There will be quite a number of streams and lakes introduced and the margins of these will be planted with native aquatics. A range of greenhouses is being built on the exposition grounds for the propagation of plants to be used in decorating the grounds. Among Mr. Olmsted's assistants is Mr. R. Ulrich, formerly in charge of the grounds of the Hotel del Monte, Monterey, Cal.

Trade rather quiet. Never such a glut of roses as last week and so far this week. Plenty of carnations but no overstock, especially of whites. Other flowers in good supply but no surplus except in roses. Violets are of excellent quality, holding up remarkably well for the season. Peter Reinberg is cutting violets with stems averaging six inches in

length. Lilac is in and arbutus is expected daily.

Philadelphia.

Hugh Graham's Son has failed. There were three judgment notes aggregating \$22,277.50 entered up against him on April 18 by his father, Hugh Graham, one for \$12,500 was the note given at the time of the consolidation of the firms of Graham & Grigg. The entire stock of Mr. Hugh Graham was purchased at that time and this note was given to protect other notes taken in payment of stock. Some time after Mr. Wm. Graham bought Mr. Grigg's interest and continued the business under the name of Hugh Graham's Son. The judgment note was still continued, however, and was a danger signal to the trade generally. The liabilities are quite considerable, but we hear of no very large amounts in any one place. Mr. Wm. Graham says he can't tell how he stands as yet, but hopes to come out all right and says that nobody shall lose a cent if he can help it.

A few very nice chrysanthemum flowers have been offered lately, but they don't sell, and we are glad of it. Fall is their season, have them early in the fall and then they wont go begging. Q.

Coming Exhibitions.

May 6-8, San Francisco.—Annual flower show California State Floral Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society.

November —, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore.

Easter in London.

On account of the very dull cold weather and the fact that Easter was much earlier than usual this year, the Church decorations were not so elaborate as one would expect.

At St. Paul's, Knightsbridge, a large



WEDDING RECEPTION ARRANGEMENT.

clump of growing callas stood in a brass bowl in the center of the altar, surrounded by bouquets of white flowers; the choir screen was covered with dark foliage on which were massed narcissus of all varieties with their own foliage; round the font was a wreath of ornithogalum, spirea and white narcissus, with large bunches of white tulips at the sides. At St. Thomas', Regent street, the old Spanish altar frontal of white satin, old gold and salmon gave the key to the coloring; spirea, genistas and azaleas were massed around the altar, which was decorated with white lilies and small pots of narcissus and azaleas.

At All Saints' all white flowers were used as a memorial offering for a member of the congregation; large altar bouquets of spirea, gardenia and azalea, palms grouped in convenient places, and along the marble choir screen callas, white hyacinths and lilies of the valley set in a bank of small ferns.

At St. Andrew's yellow acacias furnished the background and white lilies, eucharis, daffodils and hyacinths were used in profusion.

Very pretty crosses are made of grey moss such as we find covering fence rails and fallen tree trunks, with a cluster of white flowers, lilies, camellias and lilies of the valley.

The oval wreath is most popular here, the upper half of green and the lower a heavy mass of flowers. F. L. V.

Wedding Reception Arrangement.

This is intended to be at the right of the entrance to the drawing room. There was no floral arrangement here excepting this near the door, which was a group of tall Harrisii lilies on the floor, with another group raised on stands just behind, and a hydrangea at the base. Besides this, on a basket stand partly covered with smilax, were fine American Beauty roses and Arca Intescens. This was done by Mr. Klunder for one of his prettiest Easter weddings. F. A. B.

New York.

When you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

Long Island Notes.

BY WM. FALCONER.

THE FOLIAGE of the Czar violet is so much larger and stiffer than that of the ordinary violets that in bunching violets we use the Czar leaves only.

MADAME GEO. BRUANT Rose which is a hybrid between Rosa rugosa and the Tea Sombreuil seems to be a very hardy rose. It is an exceedingly vigorous plant, free-blooming all summer long, white-flowered and in large terminal clusters and teascented; and not a tip of it has been injured by the winter.

ROSE MRS. DEGRAU often gets the points of its branches winter-nipped, but this season not a branch off has been hurt. In pruning it, however, we cut it pretty hard back, because we find by doing so we get stronger wood and more and larger flowers than we would did we retain more of the old wood.

IVIES (Hedera).—I have about twenty kinds of ivies, green and variegated, planted in a border; during the winter they were covered over with a few spruce branches laid over them flat, and every ivy has wintered perfectly.

WHITE MOSS PINK (Phlox subulata).—If you know of anything in its way prettier than the white moss pink for an outer band to a shrubbery or herbaceous border, tell us what it is, for I don't.

EARLY VIOLETS.—It is nip and tuck between the little single Viola odorata of Europe and that persistent but beautiful weed, Viola Patrinii from Japan, which shall be first in bloom in spring. Both are now in good flower in warm places.

SEEDING PRIMULA OBCONICA.—Last year our plants seeded very freely. I had them on a bench near an open globe sash, facing east, and where winds and insects had full play upon them, and we picked the heads every now and again as they were full and ripe, and got quite a lot of seed. And these seeds are good and germinate freely, and don't act like some of the imported article some of my friends tell me about. The plants like a little shade at all seasons of the year. Our two-year old plants have given us excellent satisfaction

particularly in quantity of bloom, but for fine large healthy foliage and large blossoms the young, or one-year old plants are best. I have tried them as hardy plants setting them out in a sheltered warm border in front of a south-facing wall, and find that while some of them are alive the great majority of them have perished.

SEEDLINGS of CANNA STAR of 1891.—I managed to save a few seeds of this canna last summer, and now have one seedling plant from it. And I hope more will follow. And strange though it may seem, while this canna was exceedingly slow to bear seed in summer, I have this winter saved a few seeds from the pot plants.

CHRYSANTHEMUM WM. FALCONER.—Some years ago a large single-flowered chrysanthemum was raised and named as above. But as I had seen nothing of it for the past four years till I came across it at a wholesale florist's the other day, I thought it had been dropped. "No," said the florist, "we have lots of calls for it every year." Well, my opinion of it is that it is one of the poorest varieties grown.

Position of Rose House.

Will some florist who has had experience kindly state if there will be any appreciable difference in the number of rose buds produced by a modern three-quarter span greenhouse during the winter months with southeast exposure as compared with a southwest exposure? That is, with the long side toward the points of the compass mentioned. And if there is a difference, about what per cent will it be, and in favor of which house? G. S. B.

News Notes.

SARATOGA SPRINGS, N. Y.—Easter sales here were one-third larger than last year. Excellent demand for blooming plants. There was a big supply and everything was sold.

VICKSBURG, MISS.—The decorations supplied by florist J. H. Billington for a recent ball were very warmly commended by the local press. The increase in the florists' business in this city is remarkable and the future prospects could not be better.

GALT, ONT.—Easter sales were very satisfactory. Roses were in brisk demand and the supply was equal to the requirements. Plant sales were not very large, the weather being very unfavorable for taking plants out. The demand for cut bloom was much greater than for made-up work this year.

DENVER, COLO.—Easter trade was remarkably good considering the disagreeable weather. Church decorations were quite profuse but little of a new or striking character was seen. The calla as usual took a prominent part. A large shipment of them along with a lot of large palm leaves were received from southern California in good order. J. L. Russell was successful in having on hand a large crop of Harrisii which proved preferable to the calla and sold at good figures. The firm of Haycock & Huddard have newly incorporated under the title of The Denver Florist and Fruit Co., with a capital stock of \$30,000, Mr. Louis Beer joining the firm in the capacity of secretary and treasurer, Mr. P. Huddard remaining as manager, and Mr. Haycock president. They are now preparing to add 15,000 feet of glass to their already extensive place, and correspondingly improve their eighty acres of fruit farm.

ORIGINAL AND LARGEST GROWERS OF
LILIUM HARRISII, BETTER KNOWN AS **THE BERMUDA EASTER LILY.**

BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



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From a photograph taken the week before Easter, 1899, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 120 in length, of a crop of *Liliium Harrisii* in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it deserves its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it sells in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in. For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 30,000 bulbs for his own use. We hear it said occasionally that *Liliium Harrisii* flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing."

The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**: supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market. The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1899, over

—▶ **HALF A MILLION BULBS.** ◀—

Be sure you get the genuine *Liliium Harrisii*. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The "value of this Lily has led unscrupulous or ignorant parties to plant *L. Longiflorum* in Bermuda, planting it with *Harrisii* to increase their stock rapidly when *Harrisii* was very scarce, thus mixing the stock irrevocably, thereby rendering it absolutely valueless for forcing, and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large lots were required, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand: "Mixed Bulbs" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON & CO., TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.

ROSES.

To florists desiring large Roses for spring sales in the most popular varieties we can not recommend the following list too highly. Our stock is extra strong from 5-inch pots—field grown and Plants are larger than those usually sold from 6-inch pots. We offer the following from 5-inch pots at \$25 per 100; 25 sold at 100 rates.

ETOILE DE LYON, DUCHESS DE BRABANT, HERMOSA, THE GEM, QUEENS SCARLET, MME. JOS. SCHWARTZ, MME. ETIENNE, LA FRANCE, MME. SCHWALLER, LOUIS PHILIPPE, MALMAISON, COQUETTE DE LYON.

We have a limited number of the following from 6-inch pots at \$35 per 100.

HERMOSA, ETOILE DE LYON, MADAME ETIENNE, THE GEM, QUEENS SCARLET, DUCHESS DE BRABANT.

DUCHESS OF ALBANY, 5-inch at \$25; 4-inch at \$15; 2½-inch at \$5 per 100.

ROSES FOR FORCING.

We have an immense stock of young healthy Roses for forcing made from growing wood.

PERLE DES JARDINS, PAPA GONTIER, LA FRANCE, CATH. MERMET, THE BRIDE, NIPHETOS.

Price from 2½-inch pots \$5.00 per 100, 3-inch pots \$5.00 per 100. All the standard bedding roses \$1 per 100, \$40 per 1000. Send in your order to be priced.

ROBT. SCOTT & SON,

19th and Catherine Sts., PHILADELPHIA, PA.
Mention American Florist.

FORCING ROSES

NOW IN EXCELLENT CONDITION.

	2½-inch. Per 100
Duchess of Albany.....	\$7.00
Perle des Jardins.....	5.00
Niphotos.....	5.00
La France.....	5.00
C. Mermet.....	4.00
The Bride.....	4.00

Will book orders for later delivery from 2½, 3 and 4-in. pots. Write for prices.

BROWN & CANFIELD,

SPRINGFIELD, ILL.

ROSE Clothilde Souper, unquestionably the best pot rose in existence and profitable for cut flowers as well. There is more money in this plant for the retail trade than any other known variety. We are headquarters for it.

J. C. VAUGHAN, CHICAGO.

ROSES.

All the best varieties for forcing, and also for bedding out, in 2 and 2½-inch pots, \$4.50 per 100; \$40.00 per 1000. Own selection, \$35.00 per 1000. Roses in 3, 4 and 5-inch pots at lowest rates. Also greenhouse and bedding plants.

Price list free on application.

A. LAUER,

1210 E. Broadway, LOUISVILLE, KY.

IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000 at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.

Waban Rose

READY MAY 15.

From 2½-inch Pots.

1 Plant, \$ 1.00.	200 Plants, \$ 20.00.
12 Plants, 9.00.	500 Plants, 175.00.
30 Plants, 53.00.	1000 Plants, 330.00.
100 Plants, 50.00.	

From 4-inch Pots.

1 Plant, \$ 1.50.	50 Plants, \$10.00.
12 Plants, 15.00.	100 Plants, 75.00.
25 Plants, 35.00.	

The following Agents have been appointed to sell the Rose in the respective territories given below:

WM. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th and Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

EUROPEAN AGENTS: WM. PAUL & SON, Waltham Cross, England.

ROSES. * ROSES.

WABAN, SOUVENIR DE DR. PASSOT, MME. PIERRE GUILLOT.

And all the other NEW and Standard Varieties of TEAS; Hybrid Remontant, including HEINRICH SCHULTHEIS, which is by far the best early forcing Hybrid. This is the variety which MR. JULIUS ROEHRKS has forced so successfully for the past three years. Also all the best varieties of

HYBRID TEAS, CHINAS AND BOURBONS.

For forcing, bedding, etc., etc., all of which I have an EXTRA fine stock now ready for shipping at prices as low as any one can produce such stock for. NEW PRICE LIST TO THE TRADE NOW READY.

JOHN N. MAY,

SUMMIT, - - - NEW JERSEY.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices Now Ready.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from our doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates given for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

SAN FRANCISCO, CAL.

ROSES.

We still have ready for immediate shipment, in excellent condition, a fine assortment and true to name:

50,000 ROSES in 2-inch pots, \$35.00 per 1000, our selection; \$40.00 per 1000, your selection.

Send your lists to be priced for everything in the FLORISTS' list. Satisfaction guaranteed. Catalogues upon application.

Address **NANZ & NEUNER,** LOUISVILLE, KY.

You will benefit the FLORIST by mentioning it every time you write one of our advertisers.

20,000 Young Roses

Fine Plants, 2½-inch pots.

PERLE, PAPA GONTIER,	\$4.00
WOOTTON, NIPHETOS,	per
MERMET, BRIDE,	100.
MME. HOSTE, \$5.00 per 100.	

THE FLORAL EXCHANGE,

614 Chestnut Street, PHILADELPHIA, PA.

JACQUEMINOT ROSES.

Jacqueminot roses, six to ten inches high, from cold frame, \$5.00 per 100. Rooted cuttings, Golden border and verhaefelti, \$10.00 per 100. Golden verhaefelti and Sunset, \$8.00 per 100. Ten varieties mixed, \$6.00 per 100. Heliotrope, fuchsias, Vinca variegata, \$1.00 per 100. All guaranteed to be good strong cuttings, well rooted. Money must accompany orders, or shipments will be made C. O. D.

JOHN RECK, Bridgeport, Conn.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO.

(Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

A. L. RANDALL, (SUCCESSOR TO) C. H. FISK, WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES,

116 Dearborn Street, CHICAGO.

OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.

E. J. HARMS, Wholesale Dealer in CUT FLOWERS, And Florists' Supplies.

89 Wabash Ave., CHICAGO.

Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese, Wholesale Cut Flowers, 66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
given to shipping orders.

C. STRAUSS & Co. GROWERS OF CUT FLOWERS.

(—) WHOLESALE ONLY. (—)
SPECIALTY—Filling Telegraphic Orders.
WASHINGTON, D. C.

CUT FLOWERS.

The Western Trade Solicited.

Write or Telegraph.

SMITH FLORAL CO.,
77 7th Street S. - - Minneapolis, Minn.

Cape Jasmines.

About April 25th we will be prepared to ship CAPE JASMINES and MAGNOLIA BUDS in large quantities to any point in the North safely. Also Gray Moss, Magnolia Foliage, Cut Ferns, and a variety of other evergreens; also Magnolia seedlings and plants in any size. When you have a big decoration it will pay you to correspond with us. Prices on application. Give us a trial.

FT. WORTH NURSERY, SEED AND CANNING CO.,
910 Main Street, DALLAS, TEXAS.

CATALOGUES. *

I MAKE 'EM, WITH CUTS
AND "KNOW HOW."

J. Horace McFarland,
..... HARRISBURG, PA.

If you like THE AMERICAN FLORIST give it your fullest support by confining your orders to those who advertise in its columns and mention the paper when ordering.

@Wholesale Markets.

Cut Flowers.

	BOSTON, April 21.
Roses, Jacobs.....	6.00 @ 12.00
"Hybrids.....	6.00 @ 12.00
"Bon Silence.....	1.00 @ 2.00
"Gentiana, Gouss.....	3.00 @ 5.00
"La France, Albany.....	6.00 @ 8.00
"Mermets, Brides.....	4.00 @ 6.00
"Perles, Sunsets.....	3.00 @ 4.00
Carnations.....	1.50 @ 2.00
Viola.....	.50 @ .75
Valley.....	3.00 @ 4.00
Irish.....	1.00 @ 2.00
Tulips.....	2.00 @ 4.00
Fancies.....	1.00 @ 2.00
Mignonette.....	1.00 @ 1.50
Smilax.....	25.00 @ 30.00
Adiantums.....	1.00 @ 1.50
Asparagus.....	50.00 @ 60.00
Harrisels, Calias.....	6.00 @ 8.00
Candidum.....	4.00 @ 6.00

	NEW YORK, April 21.
Roses, Beauties.....	3.00 @ 20.00
"Hybrids.....	10.00 @ 20.00
"Bon Silence.....	1.00 @ 1.00
"Gentiana, Souva.....	1.00 @ 3.00
"Perles, Niphetos.....	2.00 @ 3.00
"Mermets, Brides.....	2.00 @ 4.00
"Wattevelles, Cousins.....	2.00 @ 4.00
"Hoses.....	2.00 @ 4.00
Valley.....	2.00 @ 4.00
Tulips, daffodils.....	2.00 @ 3.00
Viola.....	.50 @ .75
Lilacs.....	1.00 @ 1.00
Carnations.....	1.00 @ 1.00
Smilax.....	20.00 @ 25.00

Trade dull and flowers very plentiful.

	PHILADELPHIA, April 21.
Roses, Beauties.....	2.00 @ 40.00
"Brunner.....	2.00 @ 50.00
"La France, Albany.....	5.00 @ 10.00
"Laines, Lutes.....	3.00 @ 40.00
"Mermets, Brides.....	5.00 @ 10.00
"Wootons, Benazeta.....	5.00 @ 10.00
"Perles, Niphetos.....	4.00 @ 5.00
"Cusina, Wattevelles.....	5.00 @ 8.00
Carnations.....	1.00 @ 1.50
Valley.....	2.00 @ 2.00
Harrisell.....	5.00 @ 10.00
Tulips.....	2.00 @ 5.00
Adiantums.....	1.00 @ 1.00
Smilax.....	25.00 @ 25.00

	CHICAGO, April 21.
Roses, Bon Silences.....	2.00 @ 2.00
"Perles, Niphetos.....	2.00 @ 4.00
"Gentiana.....	1.00 @ 6.00
"La France.....	4.00 @ 6.00
"Brides.....	2.00 @ 4.00
"Beauties.....	2.00 @ 4.00
"Gentiana.....	1.00 @ 5.00
"Jacobs.....	10.00 @ 15.00
"Albany.....	6.00 @ 8.00
"Hoses.....	5.00 @ 5.00
Carnations, short.....	1.00 @ 1.25
Carnations, long.....	1.25 @ 2.00
Valley, Roman.....	4.00 @ 5.00
Calias.....	3.00 @ 10.00
Harrisell.....	10.00 @ 12.00
Candidum, short.....	4.00 @ 5.00
Candidum, long.....	5.00 @ 6.00
Viola.....	2.00 @ 4.00
Tulips.....	2.00 @ 4.00
Smilax.....	20.00 @ 25.00

Tremendous glut of roses.

WM. J. STEWART, Cut Flowers & Florists' Supplies

— WHOLESALE —

67 Bromfield Street, BOSTON, MASS.
Mention American Florist.

N. F. McCARTHY & CO. Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

TRADE LIST issued quarterly, mailed free to the trade only.
AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.



TRY DREER'S
GARDEN SEEDS
Plants, Bulbs, and
Requisites. They are the
best at the lowest prices.
TRADE LIST issued quarterly,
mailed free to the trade only.
HENRY A. DREER,
Philadelphia

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,

NEW YORK.

LILY OF THE VALLEY,

And the Choicest ROSES for the
fall and winter season.
Mention American Florist.

W. S. ALLEN, Wholesale Dealer in Cut Flowers

36 EAST 23rd STREET, NEW YORK.

(ESTABLISHED 1871.)

Price List sent upon application.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS, No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

FRANK D. HUNTER, WHOLESALE DEALER IN CUT FLOWERS 51 West 30th St., NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST 53 WEST 30TH STREET, NEW YORK.

A. S. Burns. J. I. Raynor.

BURNS & RAYNOR, WHOLESALE FLORISTS, 11 West 28th St., NEW YORK.

J. M. McCULLOUGH'S SONS, Wholesale Commission Dealers in CUT FLOWERS.

134 & 136 Walnut Street, CINCINNATI, O.

SPECIALTIES: ROSES, CARNATIONS AND ORCHIDS. Wholesale Florists

LA ROCHE & STAHL N. E. CORNER 13th and Chestnut Sts., PHILADELPHIA.

ELLIS & KUERN, — WHOLESALE — FLORISTS, 1122 PINE STREET, ST. LOUIS, MO.

WHOLESALE CUT FLOWERS AND
FLORISTS' SUPPLIES.
THE WISCONSIN FLOWER EXCHANGE,
153 Mason Street, MILWAUKEE, WIS.

Re Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president. JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

Another Decision.

SEEDS—BALM, BENE, ROSEMARY, THYME, AND ANTHOXANTHUM ODORATA.

Before the U. S. General Appraisers at New York, March 18, 1891.

Opinion by SHARRETS, General Appraiser.

The contention in the present case relates to the classification of certain seeds, viz: Balm, bene, rosemary, thyme, and Anthoxanthum odorata. Duty was assessed upon them at 20 per cent ad valorem, under paragraph 286, act of October 1, 1890.

The appellant, in his notice of dissatisfaction, says the four first-mentioned seeds "should be classed with herbs, as specified in section 699 of the free list. Anthoxanthum odorata is a sweet vernal grass, and grasses are specified in the free list." Reference is also made by the importer to paragraph 661, but this is probably an error, as that paragraph applies exclusively to oils. Paragraph 639 provides for the free admission of "flower and grass seeds," but does not authorize the free entry of herb seeds other than the varieties named. The Treasury Department, in a decision dated March 23, 1887 (Synopsis 8131), classified balm, rosemary, and thyme as garden seeds. There has been no ruling since then to indicate they were improperly classified. The act of October 1, 1890, continued the rate of duty upon garden seeds imposed by the act of 1883.

We therefore find that the balm, rosemary, and thyme seeds were properly returned for duty at 20 per cent ad valorem, under paragraph 286. The claim of the importer is sustained relative to the Anthoxanthum odorata seed and St. John's bread or bene, and rejected as to the balance of the merchandise covered by his protest.

C. L. ALLEN sailed for Europe Wednesday.

MR. WM. HENRY MAULE, accompanied by his wife, visited Chicago early this week.

NEW YORK.—J. A. DeVeer has removed to 154 East 34th street, between Third and Lexington avenues.

JOHN LEWIS CHILDS is seriously ill. Much sickness exists among the employes of the seedsmen and florists at Queens.

W. B. HAYT, of the Cleveland Seed Co., F. D. Hillman, of S. L. Allen & Co., A. Gallup and J. C. Rennison visited Chicago last week.

A BLOOM of Lilium longiflorum with eight stamens and a perianth with eight segments has been sent by Aug. S. Swanson, St. Paul, Minn. It is of interest merely as an abnormal growth and has been noted before.

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

SPECIAL OFFER.

	Per 100
ROSES—Niphotos, from 4-in. pots, \$10.00	
" " " 3-in. pots, 6.00	
Marchal Niel, from 4-in. pots, 10.00	
" " " 3-in. pots, 6.00	
" " " 2-in. pots, 4.00	
Mme. Chas. Wood, in bud, from 4-in. pots, 10.00	
Mme. Chas. Wood, dormant, 1 year Bon Silene, from 3-in. pots, 6.00	
Bride, from 3-in. pots, 6.00	
Safano, from 3-in. pots, 6.00	
Mme. Masson, 1 yr. dormant, 10.00	
Mme. Planier, 2 yr. dormant, 10.00	
" 1 yr. dormant, 8.00	
Eva Corinne, 2-3 ft. dormant, 2 yr., 9.00	
H. P. nice plants, asst. from 2-in. pots, 4.00	
Amelopsis Veitchii, from 3-in. pots, 9.00	
" " from 2½-in. pots, 5.00	
Clematis Jackmanni, 2 yr., 25.00	
" Duchess of Edinburgh, 2 yr., 25.00	
" Lucie Lemoine, 2 yr., 25.00	
" Assorted, large flowered, 25.00	
" Flumula, 2 yr., 6.00	
" Viticula, 2 yr., 7.00	
" Cocchine, 2 yr., 12.00	
Aucuba Japonica, string, from 4-in. pots, 12.00	
Carnations, assorted from 2-in. pots, 4.00	
Oleanders, asst., from 2½-in. pots, 10.00	
Hollyhocks, asst. col. from 2-in. pots, 5.00	
Tropaeolum Darkness, 1.00 per doz.	
Dahlia Camelliflora, 1.00 "	
Manettia Bicolor, 1.00 "	
Pyrethrum Uliginosum, 1.50 "	
Myosotis Blue Perfection, 20 each.	
Figs, asst., 2-3 ft., 20.00 per 100	

PHOENIX NURSERY COMPANY,
BLOOMINGTON, ILLINOIS.

Established 1852.

Mention American Florist.

LARGE STOCK OF
CLEMATIS, ASSORTED,
EXTRA STRONGH. P. ROSES, 2 YEAR OLD,
DORMANT.
SMALL SHRUBS, ETC., ETC.Lawn Grass, CHOICE MIXED,
15c. per lb.HEADQUARTERS FOR PHILADELPHIA LAWN
MOWERS AND REPAIRS.W. W. Barnard & Co.,
6 & 8 North Clark Street, Chicago.G. J. MOFFATT,
Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.

Samples and prices on application. When writing for prices, please state sizes and quantity wanted.

DOUBLE HOLLYHOCKS,
CRIMSON, CREAM, PINK, PINKISH
SALMON, WHITE, YELLOW,
strong, 1 year old plants, 80 to 100 per 100; second size,
\$5.00 per 100; third size, \$4.00 per 100.
FALMS AND DRACENAS, the largest stock
in the west at \$5.00 per 100 to \$1.00, 25.00 to \$10.00
each. Cycas revoluta, 50c to \$15.00 each. Cycas
leaves 5c to 50c each. Send for wholesale price
list and descriptive catalogue.

W. J. HESSE, Plattsmouth, Neb.

LILY OF THE VALLEY!

TRUE BERLIN PIPS.

3 yrs. old, dormant, warranted in perfectly sound condition.

ONLY A FEW CANS LEFT.

Order now and keep in cool storage for summer use. I will close out remainder at \$23 per original case of 5,500; two cases at \$45; single 1,000, \$10; per 100, \$1.50.

TERMS CASH FROM UNKNOWN CORRESPONDENTS.

A full line of Summer flowering Bulbs, Seeds, Plants and Florists' Supplies, furnished at lowest market prices. Catalogues free to applicants.

NEW ADDRESS, J. A. DE VEER,

154 East 34th St., NEW YORK.

SPECIAL LOW PRICE
Lilium Harrisii and Longiflorum Bulbs

Having just returned from a trip to the Bermudas where I went to have a good look after the Easter Lilies, and having made arrangement with the largest growers of these beautiful bulbs for a large quantity of their crop, we are now able to offer good, healthy and pure bulbs—June and July delivery, at the low rate of

4 to 5-inch circum.....	\$ 35.00
5 to 7-inch "	45.00
7 to 9-inch "	60.00
9 to 11-inch "	115.00

LILIAM LONGIFLORUM same price and sizes as above. Delivery in August. Please order before May and oblige. Yours respectfully,

HULSEBOSCH BROS.,

P. O. Box 3118. NEW YORK CITY.

Mention American Florist.

L. CANDIDUM

Strong Bulbs,
from Cold Storage,
PER 100, \$4.50.

J. G. VAUGHAN, CHICAGO.

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NAR-
CISSUS, SPIRÆA, LILIES
OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale Importers should write us for prices.
Mention American Florist.

C. H. JOOSTEN,
3 Counties Slip, - NEW YORK,
—IMPORTER OF—
Bulbs and Plants.

PRICES ON APPLICATION.

Do you want the
BEST SEEDS?

If so, send to
SCHLEGEL & FOTTLER,
growers and Importers,
BOSTON, - - MASS.

FLOWER SEED.
CHOICEST STRAINS FOR FLORISTS.
1891 trade list now ready, and
mailed free on application.
AUGUST RÖLKER & SONS,
136 West 24th Street,
NEW YORK, STATION E.

Z. DE FOREST ELY & Co.,

WHOLESALE

Seed Growers and Merchants.

Carry one of the most complete and extensive stocks of **GARDEN SEEDS** in the United States. We make a specialty of **GROWING PEAS and BEANS, AMERICAN TURNIP and CABBAGE SEEDS, ONION SETS and PURE SEED POTATOES.** We cater to the Jobbing trade. **WRITE FOR PRICES.**

NOW READY.

	Per 100	Per 1000
TUBEROSES, DOUBLE PEARL		
Fine Large Bulbs.....	\$1 00	\$ 7 50
GLADIOLUS, FINE MIXED	1 25	10 00
EXTRA CHOICE	1 75	15 00
SHAKESPEARE	7 50	

Also Importers of

Bulbs for Florists.

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Our stock, from same growers as last year, will be ready for delivery in July, it is first class in every respect and prices reasonable. — Send list of your wants for estimate, also of French and Dutch bulbs.

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New and
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Hardy
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Write for price list.

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5000 Pounds,

PRIME CONDITION,

All Sizes.

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Wholesale Catalogue on application.

Violet Crops.

In answer to Mr. John Wiedey, page 672, will say I consider his cut of 22,375 blooms from 1,200 plants from October to April 1, a very poor one.

Twelve months ago, from October to April 1, I cut 44,500 flowers from 490 plants, and this season from 2,000 plants I cut 34,000 flowers in January, and the flowers did not find an equal in the New York market. I will give the number cut during the previous five months if desired.

G. T. SCHUMERMAN.

Blue Point, N. Y.

In response to John Wiedey's request (page 672) I give my experience the past season. I have 2,000 plants of Marie Louise from which I have sold 71,265 blooms. Below is the record from October 17, 1890, to April 1, 1891:

October	5,350	"
November	10,100	"
December	5,250	"
January	7,015	"
February	16,050	"
March	27,500	"

Total 71,265

COGSWELL & R. PLEHANY.

Norwalk, Conn.

Ancient the violet crops we would like to shy our custer in the ring and challenge the chap who has produced more blooms to come forward. We set out 2,100 plants in a bed 150x9 and picked from October 1 to March 1 117,785, as shown by the record in our tally sheet as follows:

October	6,805	blooms.
November	6,760	"
December	20,025	"
January	27,145	"
February	24,750	"
March	32,300	"

Total 117,785 blooms.

Average yield to each plant, 56 blooms.

JOHN BREITMEYER & SONS.

Detroit, April 15, 1891.

Chrysanthemums.

Catalogue with description of my two new sets now ready. Sent on application.

The following varieties are offered at \$1.00 per 100 for cash:

KIOTO, L. B. BIRD, H. CANNELL, GOLD, PURITAN, GLORIOSUM, COLLINGFORDII, GRANDIFLORUM, M. E. NICHOLS, L. CANNING, E. G. HILL	\$10.00 per 100
W. H. LINCOLN	4.00 per 100
Avallanche	8.00 per 100
White Frochuck	3.00 per doz.
H. E. WIDENER	1.50 per doz.

JOHN THORPE
PEARL RIVER, NEW YORK.

Mention American Florist.

CHRYSANTHEMUMS , Per 1000	Per 100
\$25.00, many choice varieties.....	\$3.00
GERANIUMS, 10 to 20 splendid sorts...	3.00
ROSES, all the best standard vars., my selection.....	4.00
VERGENAS, in good varieties.....	2.50
ALYSUM, dbl. white, nice young plts	3.00
CANNAS, in six splendid vars.....	3.00
DOUBLE WHITE FEVERFEW, strong 2 inch, ready to shift.....	3.00
HELIOTROPE, Garfield (best purple) 2½ inch.....	3.00
SALVIA, scarlet, white, black & var	3.00
Address N. S. GRIFFITH, JACKSON CO. INDEPENDENCE, MO. (Independence is well located for shipping, being 8 miles east of Kansas City.) Mention American Florist.	

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Without any desire to brag we assure you we have the largest and best collection of Chrysanthemums in the country.

All stock is bloomed before propagated from. Our list contains over 600 varieties. We also publish a list of synonyms in our catalog.

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We have so much of interest to florists and others in our catalog that we cannot begin to mention any.

Blanche Ferry Sweet Pea, proved of great value last year as a cut flower. We have a large stock of fresh seed at 10 cents per oz.; \$1.00 per lb.

You will bear in mind we told you last year that Chrysanthemum V. H. Hallock was a good one. You will hear from this later on. We also recommended Charity and White Cap on our last years set as being particularly valuable for florists' use. Prices in quantity on application.

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L. B. 338.

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Miscellaneous stock of all kinds.

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Mad. Hoste, La France \$5.00 per 100.
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Tuberous Begonias

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CHAPTER I—SEEDS. CHAPTER II—LAYERAGE. CHAPTER III—SEPARATION. CHAPTER IV—CUTTINGS. CHAPTER V—GRAFTAGE. Including Grafting, Budding, Inarching, etc.

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GOOSEBERRY.—Seeds, for the raising of new varieties, should be sown as soon as well sown in loamy or sandy soil, or they may be stratified and sown together with the sand in the spring. Cuttings six to eight inches long of the mature wood, inserted two-thirds their length, usually grow readily, especially if taken from mature plants and stored during winter. Stronger plants are usually obtained by layers, and the English varieties are nearly always layered in this country. Mound-layering is usually employed, the English varieties being allowed to remain in layerage two years, but the American varieties only one (Fig. 27). Layered plants are usually sown in the spring, but a year after removal from the stools. Green-layering during summer is sometimes resorted to when no rare varieties.

CHAPTER VII—POLLINATION.

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Size.	No. in Crate.	Weight.
1 1/4 inch.....	3,000	250 lbs.
2 ".....	2,400	250 "
2 1/4 ".....	1,500	250 "
2 3/4 ".....	1,500	250 "
3 ".....	1,200	250 "
3 1/2 ".....	800	250 "
4 ".....	600	250 "

It will be seen at a glance, that our pots are one-third lighter than formerly, and yet we claim that owing to the superior quality of our clay and improved machinery, they are stronger than any pot in the market, and we frankly ask you to make the test. **FIG. SEND FOR PRICES.**

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In sowing them great care must be used to avoid getting them too moist. Only humus or mould should be used for these seeds. They should be laid flatwise on the surface of the soil and barely covered.

The writer never sprinkles them for three or four days after sowing, and then very lightly. The moisture present in the soil at the time of sowing is sufficient to last them for some time, or even until germination in moist weather. By this treatment the writer never fails to germinate 90 to 100 per cent of the seed sown.

ERNEST WALKER.

New Albany, Ind.

Violets Two Years.

In answer to C's query, page 648, AM. FLORIST for April 2, violets will stand two years and bloom as well as young plants provided they are not too much matted in the frame from the first year's growth.

Being unavoidably set out late, and drought following, several thousand of our clumps did not make their customary growth last summer. Although these plants have averaged 75 flowers per clump this winter we expect to let them stand for next year. Our plants are almost exclusively of the variety Marie Louise.

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THE CHEAPEST AND BEST OF ALL.

FIRE-TREE OIL
INSECTICIDE—soluble.

FOR PLANTS.—To make a solution for washing or cleansing purposes—Half-a-Pint of Fire-Tree Oil to ten gallons of water.

For Green and Black Fly, Thrip, American Blight, Woolly Aphis, etc.—Half-a-pint of the Fire-Tree Oil to two or four gallons of water, or two or three table-spoonfuls to the pint.

For Red Spider and Caterpillar—Half-a-pint of the Fire-Tree Oil to two gallons of water, or three table-spoonfuls to the pint.

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For Mildew and Blight on Fruit or Foliage—Half-a-pint of the Fire-Tree Oil to a gallon of water, or six table-spoonfuls to the pint.

Used with warm water it is quicker in its action than when cold is used.

Soft or rain water is necessary, and Applied in Wash, Tin or Pot Vessels. Galvanized Iron Vessels must not be used.

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UNIVERSITY OF CALIFORNIA,
AGRICULTURAL EXPERIMENT STATION.

BERKELEY, August 22, 1899.
Messrs. MORRIS, LITTLE & SON, BROOKLYN:
Gentlemen—In regard to the sample of Insecticide submitted by you for trial, I beg leave to state that the preparation has been used on the University grounds with the following results: First, four ounces of the Insecticide were added to one gallon of water and applied to woolly aphis on figs with a spray pump. The insects were killed wherever touched by the insecticide. Second, one-half ounce of the Insecticide was added to one gallon of water and application made by spray to the greeny on rose bushes; the insects were killed on all sprays reached by the spray. The amount of material submitted for experiment was too small to admit of large scale experiments, which would be desirable.

Very respectfully,

E. J. WICKSON,

Assistant Superintendent Agricultural Grounds.

FLUSHING, L. I., June 25, 1899.

Dear Sirs—I have found your Little's "Antipest" very efficacious in destroying the insects injurious to plants, without affecting the plants in any way. I regard it as the best insecticide that I have used, and I would not be without it. It is easily applied, very effective, and can be used with safety.

Yours truly,

JOHN HENDERSON CO.

409 FIFTH AVE., NEW YORK, Jan. 12, 1899.

Dear Sirs—We are most willing to testify to the good quality of "Little's Antipest." It is the best and most effective insecticide we have ever used. You can send us another 10 gallons. Yours truly,

SIEBRECHT & WADLEY.

QUEENS, N. Y., Jan. 8, 1899.

Dear Sirs—I have been using Little's "Antipest" since last September and have no hesitation in recommending it as by far the best insecticide I ever used. While it is sure death to all insects, there is no trace of the compound left on the foliage of plants. Please send us a gallon more at your earliest convenience. Respectfully,

JAMES MACKAY,

Foreman V. H. HALLON & SON,

PHILADELPHIA, Pa., Dec. 3, 1899.

Dear Sirs—I have been using your "Antipest" for several months for washing Palms, to destroy scale, and I find it valuable for that purpose. Respectfully,

JOHN BURTON.

1287 BROADWAY, BROOKLYN, N. Y.

Dear Sirs—I have used Little's Antipest for Mealy Bug and must say that it is the only remedy that I found to do the work effectively, having used various other insecticides before without good results. Respectfully yours,

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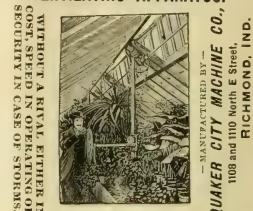
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- 4th. Give the height from the ground to the comb of roof.
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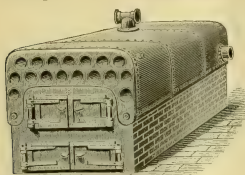
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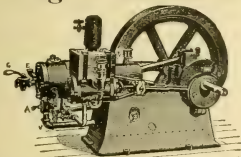
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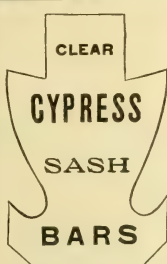
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SECRETARIES OF Florists' Clubs should keep a scrap book wherein they may paste clippings of mention the club's exhibitions or other movements may have received in the local press. The name and date of the paper from which the clipping is cut should be written in ink over or under each one when pasted in the book. Such a collection makes extremely interesting reading after a few years have elapsed and is of decided historical value.

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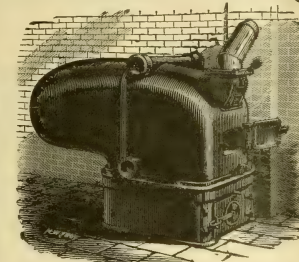


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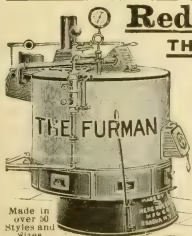
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THE AMERICAN FLORIST



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Vol. VI.

CHICAGO AND NEW YORK, APRIL 30, 1891.

No. 152.

THE AMERICAN FLORIST

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Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY.

54 La Salle Street, CHICAGO.

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Give information to members regarding the financial standing and business integrity of those in the trade.
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ALREADY the question is being asked: Are you going to Toronto in August? The majority of the replies are in the affirmative.

QUOTATIONS on cut flowers this week show the market to be thoroughly demoralized.

WHEN WRITING advertisers please say that you saw the adv. in the AMERICAN FLORIST.

The Baltimore Flower Show.

After a pleasant ride of 45 minutes a delegation of over 20 of the Washington florists found themselves in their suburban seaport, enjoying the sight of an excellent exhibition of spring flowers given by the Gardeners' Club at the Academy of Music.

A display of hydrangeas grown by Conrad Hess was the feature of the show, over 200 being on exhibition and making a show in themselves. The collection of orchids from Messrs. Brackenridge & Co. included well flowered specimens of Arthropodium giganteum, Lycaste Skinnerii and Cattleya citrina, and many other good kinds. A few choice rhododendrons in flower grown by Isaac Moss attracted much attention, as did also a collection of palms, crotons and other decorative plants from the same grower. A collection of carnations comprising the following varieties: Lamborn, Buttercup, Pride of Kennett, Chester Pride, Grace Wilder, Silver Spray and Tidal Wave, attracted a great deal of professional notice. They were grown by H. E. Chitty, Paterson, N. J. A fine collection was also shown by Geo. Creighton, of New Hamburg, N. Y., comprising the following kinds: Crimson Coronet, Peachblow Coronet, White Coronet, Mrs. Criswell, The Infant, American Flag, Grace Darling and Fred Creighton, the last by far the finest of the lot, very much after the style of Grace Wilder.

A collection of palms, ferns, etc., from Dreer, Philadelphia, occupied a central position and some of the plants were good specimens especially the Cycas revoluta and Rhapis humilis being very fine. A group of Mannettia bicolor from Hess was a crowd attracter. John Donn was in with a collection of 24 azaleas which were fine.

The cut flower department was well represented. The following are some of the best: A table design by Seidewitz of Annapolis was very good. The Halliday Boys displayed their usual good taste in funeral work, a wreath of roses and valley taking first premium, also first in the corsage bouquet exhibit.

Prizes were awarded as follows: Collection of palms, 1st I. H. Moss; 12 ornamental plants, 1st I. H. Moss; 6 stove and greenhouse plants, 1st E. Kress; 12 azaleas, 1st John Donn; one specimen azalea, 1st John Donn; 12 cinerarias, 1st John Donn; 12 pansies, in pots, 1st E. Herrmann, 2nd John Donn; 12 double geraniums, 1st William Fraser; 12 single geraniums, 1st E. Herrmann; 12 ornamental geraniums, 1st Henry Bauer; 12 heliotropes, 1st Wm. Fraser; 12 double petunias, 1st Henry Bauer; 12 hyacinths, 1st Edward Hess; 6 hydrangeas, 1st Conrad Hess; 12 Lilium Harrisii, 1st James Simpson; 25 roses, in pots, 1st James Simpson, 2nd John Donn; 12 hybrid roses, 1st Henry Bauer; 25 orchids, 1st Brackenridge & Co.; 10 orchids, 1st Brackenridge & Co.

Collection of crotons, 1st I. H. Moss; collection of cacti, 1st E. Herrmann, 2nd Henry Bauer; collection of begonias, 1st John Berl, 2nd Henry Bauer; 6 rhododendrons, 1st I. H. Moss; collection of bedding plants, 1st Henry Bauer; vase of growing plants, C. M. Wagner.

Cut flowers—12 hybrid perpetual roses, 1st William J. Halliday; 50 pansies, 1st D. Zingibiel, of Needham, Mass., 2nd E. Herrmann; 100 violets, 1st C. M. Wagner; table decoration, 1st E. A. Seidewitz, 2nd Halliday Bros.; funeral design, 1st Halliday Bros., 2nd E. Herrmann; table design, 1st T. H. Patterson, 2nd Halliday Bros.; new design, 1st E. A. Seidewitz, 2nd T. H. Patterson.

Bride's bouquet, 1st E. A. Seidewitz, 2nd W. J. Halliday; corsage bouquet, 1st Halliday Bros., 2nd E. A. Seidewitz; basket of flowers, 1st Halliday Bros., 2nd W. J. Halliday.

The special premiums of \$25 for the best collection of roses in pots was taken by E. Kress; of \$15 for best single specimen by Henry Bauer, and of \$10 for next best single specimen by I. H. Moss. Messrs. Clarke, Lee and Gages, of Washington, were the judges.

After the judges finished their work there was a dinner tendered to the Washington Club by their Baltimore brothers at which the usual toasts went off with great applause and laughter and the company broke up after singing Auld Lang Syne in a manner seldom heard in the Eutaw House, Baltimore. C.

New York.

Business very quiet for the marriage season. There have been several weddings during the week, at which were carried some very handsome bouquets made by the different florists. Bridal bouquets of trailing arbutus are fashionable just now.

Horace Greeley's daughter carried a bouquet of white violets at her wedding on Thursday. The interior of the carriage that conveyed the happy pair from the station was elaborately decorated with Bride roses and trailing arbutus.

Wild violets have made their appearance and sell well for their novelty. The warm weather continues making flowers very plentiful. Out doors the tulips are glowing in all their glory and the beautiful Forsythia and Pyrus Japonica and many flowering shrubs are in full bloom.

The New York Florists' Club met at their rooms on Monday night. There was a large attendance. Whatever failure was attached to the recent fair was considered very light, the members being justly proud of the show from its artistic side.

A proposition made by the management of the Madison Square Garden to the club to give an exhibition in their large hall in the fall was favorably con-

sidered and if the Madison Square Co. meets the requirements of the club they will give an exhibition this fall that will eclipse all past efforts.

Mr. Joseph Fleischman will on or about May 1 open a floral establishment adjoining the "White Elephant," 31st and Broadway.

Exception being taken by the parties interested to some of my criticisms in last week's letter I can only repeat: The retail trade was poorly represented in some of the exhibits. Of course all agree that it was held too soon after Easter to give competitors a chance of formulating their ideas; finer work could be seen daily in the stores of those who did compete.

In an exhibition nothing but the best, the finest should be shown. With the exception perhaps of a few no one will say that they did their best.

It is to be hoped that at the fall exhibition the retail trade of this city will have a chance of showing their best.

In answer to Mr. Gerard allow me to say that no one can blame Mr. Parsons for lack of flowers in our parks, but when we see the beautiful floral designs in the parks of less important cities we can only offer as an excuse that our officials are too miserly or too much engrossed with other matters to study the entertaining of New York's public with floral treats. We are assured by a knowledge of Mr. Parson's ability that everything is done that can be done with the facilities at hand in the adornment of our parks.

There was a mistake made in the notice referring to Mr. Hart in last week's issue; it should have read "hustler." Mr. Hart is a hustler, as everyone knows, and if flowers can be sold Mr. Hart can sell them. He has had a long experience in the business and was always considered one of the best businessmen in New York. We congratulate Mr. Hart on his success and hope his business will be prosperous.

JOHN YONGE.

The New York Show.

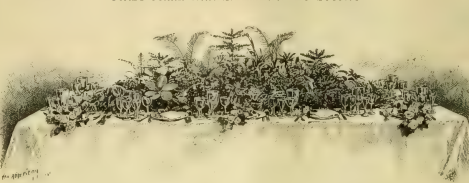
Mr. John Thorpe sends us the following regarding the illustration which appeared on page 698 of last week's issue:

"General view from boxes above entrance to Lenox Lyceum.

"The plant immediately in the foreground is *Ceroxylon niveum*, a lovely palm. The circular group to the left is Mr. Bennett's first prize group of ornamental foliage plants 20 feet in diameter. The center plant is *Astrocaryum Mexicanum*, fully 12 feet high. Other fine specimens were kentias, latanias, phoenix, arecas, dieffenbachias, dracaenas, ferns, marantas, crotons and many other plants. It was handsomely put up and called forth a great deal of praise. The next group to the right is Mr. Brett's second premium, a handsome and effective setting. Massive specimens of *Cycas revoluta*, latanias and phoenix towered above smaller plants of marantas, crotons and specimen *Adiantum Farleyense*, many nearly three feet across. This was greatly admired and ran a close second. Other groups seen in the picture were from Messrs. Siebrecht & Walley, F. R. Pierson and David Rose. At the back of the fountain can be discerned the magnificent collection of orchids from Messrs. Pitcher & Manda. The fountain was most beautiful. Under the water and up the column were electric lights of fiery orange, luminous purple and translucent yellow. In the fountain were nymphs, pontederia and lymnocharis. The boxes and the front of the proscenium were draped with southern smilax."



FIRST PRIZE ARRANGEMENT—BY STUMPP



SECOND PRIZE ARRANGEMENT—BY LE MOULT

TABLE DECORATIONS AT THE NEW YORK EXHIBITION.

[For Descriptions see page 698 last issue.]

Referring to the original funeral design exhibited by J. T. Foley and shown in the illustration on page 698 of our last issue Mr. Thorpe writes: "The Heavenly Lamp. This was a very unique and expressive piece of work. The base was composed of small ferns and lily of the valley, the stem and brackets of white camellias with here and there a few sprigs of hoteia. The lamps and shades to same were of deep purple pansies margined with golden yellow pansies. Wax tapers were in each lamp. The lamps were perhaps a little heavy in appearance and the column below the base a trifle short. It was universally admired and well deserved it."

Chicago.

At the last meeting of the Florist Club there was a very interesting discussion upon the advisability of selecting ladies who are large buyers of flowers for judges of floral arrangement at exhibitions. Early in the discussion Mr. Bentley introduced the question propounded by Mr. Young in his report of the New York show, viz: "Who are the best judges of floral art? The woman who once in a while buys a cheap basket or the man who has made it a life study?" And the debate afterward was upon this question except that the lady judges considered were those who buy flowers largely and continuously. Nearly every member present had a word to say on the question, but the main debate was between Messrs. Reynolds and Bentley.

Mr. Reynolds held that the florists were in the business to get the dollars and that the verdict of a dozen or more of the leading flower buyers of a city, even if it was quite at variance with the views of the florists themselves, showed the direction in which they should work to increase the crop of dollars. That the large buyers of flowers and floral arrangements were the best judges of what they wanted,

and that it was to the best interest of the florists to supply what their customers most desired regardless of their own ideas of what the customer ought to want.

Mr. Bentley took the position that the exhibitions were to educate flower buyers as well as stimulate the interest of those who had not yet reached that stage. That at exhibitions it was the duty of the florists to present to the public the highest type of artistic arrangement of which the exhibitor was capable and that the awards should be made by judges who were competent to pass upon such arrangements and thus place the stamp of approval upon those which the public should learn to appreciate. Mr. Bentley laid considerable stress upon the fact that many of the ladies who ordered floral arrangements computed their worth by the number of flowers used, utterly ignoring the value of the skill displayed in the arrangement. He hoped for the day when the artistic ability of the florist would receive fuller recognition, and believed that exhibitions could be made an important factor in bringing about this desirable change, if the arrangements were passed upon by thoroughly competent judges. He said: "Paintings are judged by the effect produced and not by the amount of paint on the canvass, and arrangements of flowers should be judged by the same standard. The appreciation of fine art is a matter of education and we must be the educators."

Mr. Reynolds made some humorous comments on the high stand taken by Mr. Bentley asking him if he was really willing to forego a share of the annual returns from his business in order to educate the public and there followed a good natured debate that furnished considerable amusement to the others present.

Mr. Smyth raised a laugh by declaring that judging was only a lottery any way, as it was doubtful whether any two judges would agree as to what con-



FIRST PRIZE BASKET AT THE NEW YORK SHOW—ARRANGED

BY MCCONNELL



FIRST PRIZE VASE OF 100 HYBRID ROSES AT THE NEW YORK SHOW.—

ARRANGED BY STUMPP

stituted a really artistic arrangement.

The subject seemed so promising a one that further debate was made the order for next meeting, and to place the matter clearly before the meeting Mr. Smyth in response to an invitation agreed to read a paper on the artistic arrangement of flowers. Mr. Reynolds also agreed to read before the next meeting an article on the arrangement of flowers in vases by the Japanese, written by Edwin Arnold, and that expressed Mr. Reynolds' views. From the interest already awakened it is probable that the discussion at next meeting will be vigorous.

Some of the finest hybrid roses ever seen here were shown at the last meeting of the club by Mr. Buettner, of E. Weinhoefer & Co. They included Ulrich Brunner, Anna de Diesbach, Magna Charta and Jacqueminot. All were of immense size, splendid color and with beautiful foliage. The blooms of Brunner were cut from plants bedded last June from 3-inch pots. Mr. Buettner believes in replanting hybrid houses with young stock every four years. Thinks he gets better blooms from the young stock. Brunners take well in the market here, but Magnas go rather slow. Mr. Buettner also showed a bunch of mignonette of the variety Machet. The spikes were of good size and perfect in form.

Trade is still quiet. The glut of roses continues, though if present signs do not fail the over supply will not last long, even if business should continue quiet. Jacqs and other hybrids already show up in diminishing quantity and a stiffening in prices is following. Violets are rapidly growing poorer and will soon disappear from the market. Carnations still hold their own and continue very popular, especially the fancy sorts which seem to

suffer less than anything else in the general slump.

Trailing arbutus is in and for a day or two reigns supreme. Enormous quantities of this flower are sold this season. Lilacs are plentiful, but the sale of this flower is almost entirely restricted to the street-fakir. Daffodils, Dutch hyacinths and some of the earlier varieties of tulips from the open ground are making their appearance. The street-fakir is out in full blast and is adorning every available place on the down town thoroughfares. Every nationality under the sun is represented, an irrepressible lot of merchants that are either for good or for evil, who can tell? It is certain that they sell enormous quantities of stuff that would otherwise go to waste.

Several changes will soon take place in the down town district. Mr. George Klehm will give up his State street store and reopen in his temporarily abandoned place at 36 Washington street. Mr. Klehm is very popular among the trade and the good wishes of the fraternity will follow him to his new place.

M. Malsh, who has for several years past catered to the floral tastes of the west siders in the vicinity of South Halsted street, has rented the basement at 113 and 115 State street to the tune of \$5000 a year and has announced his intention to revolutionize the down town trade and to more or less gradually absorb what trade still lingers there. He will first turn his attention to his neighbors on State street and after they have been absorbed will reach over to Wabash avenue after those who may still remain in

that section. Strange as it may seem the hardened old timers simply smile and up to date so far as can be learned no one has offered to sell out his business at a sacrifice.

A. A. Hinz, formerly gardener for Uri Balcom, is now at Tacoma, Wash.

Paul Cadris, for some time past with J. D. Reynolds at Riverside, is now with J. G. Heint, Terre Haute, Ind.

The Horticultural Society of Chicago is possessed of considerable vigor for so young an organization. Last Monday afternoon a called meeting of the executive committee was held in the director's room of the Illinois National Bank, and the business in hand proved to be the consideration of a proposition by Mr. F. C. Vierling, second vice-president of the society and an influential member of the city council, to present to the council an ordinance granting its permission for the erection of a horticultural hall upon the Lake Front Park. Mr. Vierling had already seen Mr. Warren Leland, the principal adjacent property owner, and that gentleman made no objection. It is needless to say that full authority was given Mr. Vierling to make the request in the name of the society. He feels confident that the ordinance will pass without objection. Just before the meeting adjourned Mr. Vierling and President Schneider agreed to each take \$5,000 worth of stock in the company which will be organized to erect the building, thus assuring \$10,000 for a starter.

Boston.

Roses are still very plentiful with no regular selling price on any variety. Carnations are also badly overstocked, although till within a few days they have been scarce. *Smilax* continues scarce and violets are out of the market. Outdoor grown bulbous flowers such as daffodils and tulips are coming in in great profusion. Lilacs, etc. from the south are also being received in quantity. Lilies of all kinds are quite abundant and bring very low prices. In fact the great problem just at present for growers and dealers alike is not how to get big prices but how to get rid of the stuff. Prices is a secondary consideration.

The plant auctions have commenced and will be continued throughout the spring every Wednesday and Saturday. Some of our largest growers of bedding plants dispose of the bulk of their stock in this manner every season now and grow their plants with this object in view.

Forsythias, magnolias, pyracas and other early blooming shrubbery are now in full flower and the nurserymen and dealers in outdoor stock are suddenly confronted with the unpleasant fact that the season is going to be a very short one for them. If the spring advances at its present rate Decoration Day supplies may prove to be an interesting subject.

A new form of *Astilbe Japonica*, known as *grandiflorum*, was recently shown at Horticultural Hall by Mr. Cameron, gardener at Harvard Botanic Garden. It was awarded a certificate of merit. The flowers are very profuse and much prettier than the old variety, and it is said to force more readily. W. J. S.

Syracuse, N. Y.

The spring exhibition of the Central New York Horticultural Society was a decidedly successful one. The display was unusually large and the plants and flowers of excellent quality and well arranged for effect. P. R. Quinlan had the largest exhibit of plants and his azaleas and hydrangeas were especially fine.

The display of cut flowers was admirable. The exhibit of L. E. Marquisee, which took the first prize, consisted of six vases of roses, carnations, violets, etc., and the flowers were as fine as any ever shown in this city. His six azaleas which also took first prize were a fine lot of plants and attracted much attention.

The judges were Wm. Mathews, of Utica, and James Morgan, of Auburn. They made awards as follows:

CLASS 1—FLORISTS.

P. R. Quinlan & Co., first for foliage and flowering plants, first for collection of flowering bulbs, first for best azalea, first, best fern; first, best hydrangea; second, six azaleas; second, six ferns; second, six hydrangeas.

L. E. Marquisee, first for cut flowers; first, best six azaleas.

Mrs. Hayden, second, collection of foliage and flowering plants.

W. Clark Geddes, first, cinerarias; first, six varieties roses.

CLASS 2—GARDENERS.

Peter Kay, gardener to Hon. J. J. Belden, first, best collection of foliage and flowering plants; first for cut roses; first, 6 best ferns.

G. Ham, gardener State Idiot Asylum, first, 6 best hydrangeas; first, 6 geraniums; second for foliage and flowering plants; second, bulbs in flower; second, cut flowers; second, 6 cinerarias; 23 geraniums.

W. Menclley, gardener to H. S. White, first for collection of cut flowers; first for seedling carnation.

J. Hullar, first for collection of bulbs in flower; first, 25 pansies; second for 6 geraniums.

P. R. Quinlan exhibited a fine collection of roses not for competition.

Philadelphia.

William Graham, trading as Hugh Graham's Son, was sold out by the sheriff on Friday, April 24, to satisfy the judgments of over \$22,000 held by his father. The sale netted less than \$10,000, the stock being all bought in by his father. It is presumed that he will carry on the business at the same place.

There was no meeting of the creditors called by him, nor any statement as to the amount of liabilities. An informal meeting of such creditors as could be hurriedly called together was held at the Florists' Club room; some five thousand dollars was represented. A committee was appointed to wait on Mr. Graham and learn his ultimatum; they have not reported.

Mr. Edwin Lonsdale has found among his lot of *Cypripedium Lawrenceanum* a "sport" or new variety. The flower is a beautiful green, without any marking whatever. He says there are only two or three plants of it known to the trade.

Business is not quite up to the mark for this season of the year. Flowers are plenty and are sold at the following prices: *Mermets*, Brides, La France, \$6; *Perles*, *Gontiers*, *Niphotos*, \$3; *Jaques*, \$10; *Hybrids* and *Beauties*, \$15 to \$50.

Mr. David Bairn has sold his establishment and will build at Bala, near Dennison Brothers. It is rumored that when the new establishment is opened there will be a partner who will relieve David of certain duties and permit him to give his undivided attention to the business.

K.



Carnation Culture.

[Read before the Florists' Club of Philadelphia by A. M. Hogg.]

As a prelude I will state that the methods described in this paper are those that I have found best adapted to my soil which is a sandy loam that does not readily become water clogged or heavy.

I never had the advantage of an apprenticeship in the florist's business, my teacher being experience and sometimes the lessons have cost me a neat sum. On this account my culture may differ from many growers and will be more open to criticism and discussion, which I hope you will deal out liberally after I have had my say.

Starting with the cutting it should be taken from a good healthy plant, placed in any good propagating sand and kept in a temperature as nearly as possible to that in which the stock plant has been growing for about ten days. The temperature can then be raised a few degrees and bottom heat applied; good medium at this time is 55° to 60° for both the sand and the atmosphere. Treated in this manner they should be well rooted at the end of four to five weeks.

They are then ready for potting up or planting into trays. I pot all mine as they keep their roots more compact if a trifle pot-bound when set out and take up in the fall with fewer broken fibers. In a very sandy soil this may not be so much of an object. The best pots are rose pots, as they give an abundance of root room and do not occupy so much bench space which is quite an object in potting up large quantities. After the plants are potted the temperature should be dropped gradually until you get to 40° to 45°. This may sound like treating them very delicately, but we are after success and a careful attention to details is the main highway to it. Care should be taken that the greenfly, red spider or weeds do not make an appearance. Give plenty of ventilation and if growing in a house leave it on all night except in severe weather. As soon as danger from heavy frosts is over plant out.

In the field the plants should not be closer than 12 by 15 inches and as much farther as you like. I make it a rule to allow no weeds to grow in the patch, this gives the soil a stirring pretty often, which is an important feature to get good plants. For manure use stable manure and no commercial fertilizer, as these are a positive injury to carnations; they are all right for a crop that is harvested in the field, but a carnation produces its crop under entirely different conditions and should not be stimulated by concentrated manures in the field, as is the case in a wet season with this class of fertilizer. Manure should be applied light or heavy judging from the growth the different varieties made the season before and a late cutting taking more than one well established.

In the fall the best time to plant in is during a cool spell of weather, such as we often have, no matter whether it is the latter part of August or early in October. The object is to get them started with as little check to their growth as possible. I like to give them full sun light as soon as they are able to bear it without wilting, this must be guarded against by keeping the house damp and cool as possible.

The soil in the house should be a trifle richer than what they had been growing in during the summer. I use well rooted stable manure, putting it on the beds early in August and mix with the soil and water well several times so that by the time we are ready to plant in the soil is well mellowed and the manure well mixed. I plant nearly all my carnations on solid beds; this not only saves the expense of benches but I find I can get much better results. The plants keep healthier and the flowers are finer and such a thing as cropping is almost impossible excepting with a few sorts. In regard to getting them in earlier the bench has a few weeks the advantage, but that is rather a doubtful blessing thanks to chrysanthemums.

There are some varieties that will not do well on a solid bed. First among these is L. L. Lamborn; this one wants a house all to itself and a temperature about ten degrees higher than most others to give the best results. I mention this merely to show that what may be meat for one is poison for another. There is a point that every grower would do well to watch carefully as different soils will give different results, and it is only by experience that we can find out what treatment to give them. Fred Creighton is another that wants a bench. I propose to plant my Creightons in the bench on which they are to bloom about the first



AZALEA VERVÆNEANA.

of May and grow them all summer under glass. In this way I hope to get well hardened wood that will come into bloom for the holidays. I did not get my crop this season until February. This may be one of my costly experiences, if so much will be the word, if not I will give results in the *FLORIST* next winter. J. J. Harrison, Mrs. Fisher and Chester Pride also do best on benches and perhaps some of the newer sorts yet untried.

Winter culture is a simple affair if the house is kept clean and the soil occasionally given a loosening up. The most important feature to watch is that they are kept neither too wet nor too dry, but be careful to err on the dry side. The best temperature is 50° to 60° with plenty of air on bright days. Some growers do not stake their carnations. I saw several such houses the past season and can say emphatically no such houses for me. I place a stake between the plants in the row and tie the string around the stakes, this supports the stems and at the same time allows plenty of air and light to the foliage, which is the only objection that can be made to staking for the cost is more than offset by the gain in good blooms.

You may be interested to know what I consider the best varieties. It would be

impossible to give a list that would be satisfactory in all soils. I shall grow for next winter's cut for white: Lizzie McGowan, Mrs. Fisher, L. L. Lamborn and Silver Spray; pink, Grace Wilder, Christmas, Fred Creighton and Day Break; for scarlet I shall grow Hector only, and for crimson, Anna Webb; for carmine there is nothing to compare with Tidal Wave; Buttercup is the best of its color but I can not grow it successfully and will use Golden Gate instead; for fancy, J. J. Harrison, Nellie Lewis and Chester Pride are the best with me. I will also try nearly all the new ones, many of which I have no doubt will not be found on the place the season following.

Selling blooms may not belong to carnation culture but the profits in the business will be governed by the law of supply and demand and it is to our interest to make that demand as large as possible. Outside of what few are wanted for designs they should all be pulled with a good long stem which will generally have a few unopened buds on it and in addition there should be a few sprays of foliage as long as the stems put with every bunch; all of this the retailer would have to pay well for and I know from experience that his customers will give him a good dividend on the investment.

Mr. W. L. Edwards followed the essayist and gave some valuable pointers in regard to varieties. Like Mr. Herr he was opposed to the use of artificial fertilizers, using stable manure only and plenty of it.

Mr. Dillon made a few remarks in regard to watering, ventilating, etc., deprecating strongly the syringing of carnation plants.

Mr. Edwards senior created some amusement by his emphatic rejoinder to the latter statement, claiming that in his experience extending over some 30 years copious syringing was beneficial, in fact absolutely necessary. Mr. Edwards also differed from his son in regard to fertilizers. He had grown successfully with artificial as well as natural manure. But his great ally among fertilizers was chicken dung. That he preferred to anything else.

The Carnation Contest at New York.

I had hoped and expected to see a full and exhaustive report of the spring exhibition held recently in New York.

The cup valued at \$60 was awarded to Sea Gull, a white variety, large flower, on stout erect stems. E. G. Hill & Co., Richmond, Ind., were the exhibitors, though Mr. Fred Dörner, Lafayette, Ind., is the raiser.

Certificates of merit were awarded to the following: Lizzie McGowan, E. V. Low, Iago (exhibited by John McGowan), Puritan (exhibited by Wood & Bro.), Mrs. Robert Hitt, Mme. Albertine and Salmon Queen (E. G. Hill & Co.), Fred Creighton (George Creighton), J. B. Jaquier (Dailledouze Bros.), Grace Darling and Mammoth Pearl (J. C. Chambers), Caesar (W. R. Shelmire), Wm. F. Dreer (C. T. Starr), American Flag (G. Bergmann).

I would very much like to say something more about this exhibit. It certainly deserves it, but for want of time I cannot do so now. EDWIN LONSDALE.

Azalea Vervæneana.

We present herewith an illustration from a photograph of Mr. James Dean's new hydrangea which has received such favorable comment from those who have seen it. The plant shown was in a 5-inch pot. The flower is double and very large, measuring six inches over. In color it is variegated, delicate and bright pink with a crimson blotch in the center. This is expected to be a most valuable sort for Easter plants.

The Multiplication of Araucarias.

(Translated by F. L. V. for the *Am. Florist*.)

Araucarias are multiplied in three ways: By seed, by budding and by grafting. Seed.—The seeds should be sown almost immediately after gathering; they are large and the oil which they contain soon becomes rancid, destroying their germinating power. They are generally shipped in layers in earth and usually germinate during the long journey from Australasia to Europe; there is then nothing to do but to replant them carefully in small pots in the cold frame, where the young plants continue to develop.

One may well imagine that the seeds of this tree received by the seedsmen and kept in sacks will often have lost their vitality, and indeed belong to a class the germination of which seedsmen will not guarantee.

The slowness with which these seeds germinate must also be taken into account, and the seeds which remain fresh

should not be thrown out but patiently waited for until they start or begin to decay.

It will be found best to plant in small boxes 12 inches long by 8 inches wide, assuring good drainage by a layer of sandy gravel or broken pots, and filling with fresh peaty loam, covering the seeds half or three-quarters of an inch, and place in a moderately warm frame, even cold in preference to much heat. The heat should not be increased until the plants are reported and are to be urged into rapid growth. This mode of multiplication by seeds would be the simplest if these always arrived in good condition. It would also have the advantage of producing the most vigorous plants, if this were an end generally desired. But the case is just the contrary. The *Araucaria excelsa* from seed grow too rapidly on the Mediterranean coast. From Toulon to Nice and at Genoa, where they are largely planted in gardens, they form too tall trees, not compact enough and with branches too far apart. This defect is still more important when the plant is grown for interior decoration, as is usually the case, it being a great favorite as a parlor plant. For this end is employed one of the two processes which we will describe, budding and grafting.

Budding.—For budding *Araucaria excelsa* we must first have the mother plants. For this purpose we take plants already strong and cut off the heads; it is best to keep the plants in the greenhouse so that the new shoots will expand in about the same temperature in which they will be budded. Around the section made in the stem a crown of young sprouts appears; these should be carefully removed, keeping a little base with each, and planted in small pots filled with fine, fibrous, sandy or peaty soil. Then bury the pots in a temperate frame, covering closely at first, afterward ventilating gradually. When one can avoid sudden changes in the state of the soil and of the atmosphere, very good results are obtained. When the roots touch the sides of the pot the young plants should be repotted, giving always a good compost of substantial fibrous soil. In the winter place them in a temperate house, near the glass. In May they may be placed outside after repotting, sunk in the ground, shaded and protected. In this way are obtained those pretty, regular plants, with branches in close succession from the base, which are so much sought for parlor ornament.

Grafting.—This last means is also used to obtain handsome compact plants. If it is wished to graft quite young plants, we lower the seedling plants from the size of a pen to that of a finger, and cultivate in pots; it is enough to leave an inch or two of stem above the soil, just for the graft. Then graft (fourwise graft or half split) using a young graft, but firm and somewhat ripened. Bind with raffia and cover closely in the frame, as with camelias. After uniting the plants are treated in the usual way, without other care than to watch the shape of the plants, water and keep near the light.

The *Eutaeta* section of *araucarias* may be treated in the same manner: A Rulei, Muelleri, Cunninghami, Cooki and their varieties.—*Ed. Andre in the Revue Horticole.*

Giant Mignonette.

The accompanying illustration is from a photograph sent by C. E. Baumann, Rahway, N. J. Mr. Baumann writes:

"You will please observe that there is a two-foot carpenter's square photo-



A GIANT MIGNONETTE

graphed with the plant, enabling any one to gain a correct idea of its proportions. The main point about the plant is that the trusses are phenomenal in spite of the fact that it has never been disbudded. Some of the florets are one-half inch across. The plants surrounding the large one have borne spikes that have brought \$2 a 100 right along. They are strong and vigorous, but not compare with the other."

Leaves of Advice From a Limb of the Law.

(For Young Florists.)
XXVI.

RESPONSE TO QUERY BY H. B.

You ask me to give a little advice to a friend of yours who does business as a florist in a small way, say 5,000 or 6,000 square feet of glass, under which he grows callas, roses, carnations, etc., besides all sorts of bedding plants. His establishment is in the center of a small city, but up to very lately no nearer neighbor than one hundred yards has come to disturb him and his flowers.

Now at last, a large electrical plant—quite a different one from his by the way—has set itself down next door to him, with very disastrous results to his business. Oil and dirt cover his glass, and water will not cleanse it. The steam from the vast engines reduces this oil and dirt to such impalpable fineness that it enters the laps of the glass and injures his flowers. The sun is shut out by the deposit on the glass and his plants are sickly. Plants too which need the open air are all but ruined, in a word he thinks—and other florists agree with him—that his business is ruined.

Now you ask indignantly: Can it be possible that he has no redress against this electrical company?

I must begin by saying that in order to give advice on such a subject I should

know all the different sides of the question. For instance, if his florist business is located in the center of the town and the town has been gradually growing up closer and closer to him, he would have no redress against any manufacturer whose engine filled the air with dust, steam, etc., which so readily tarnish glass. There is nothing in such a business to make it a nuisance. It is not detrimental to health. It is part of the necessary life connected with the growth of a town, and the law could not be expected to stay the manufacturing interests solely to protect the glass roof of a florist's establishment.

All cities are more or less smoky and dusty and their atmosphere is necessarily filled with particles of oil, acid, etc., which quickly tarnish glass. The law requires that the chimneys of such a factory, as in fact all manufacturing establishments using large engines, shall be high enough to carry off the smoke and gases so as not to injure health; but the law cannot be expected to require such a factory to keep its dust and dirt from flying out of the windows and as many perfectly lawful businesses throw off dust both organic and metallic, even the residences near them have no redress, for the owners can't prove that they are hurtful to health.

A nuisance in the eye of the law is anything which injures a person's health or prevents him enjoying his own property, or the property set aside for public use, such as highways, sidewalks, etc. As you will readily understand, a nuisance may be public or private.

Now the law must not be too severe either way. True, my business may annoy you, yes, even interfere with yours but if mine be as lawful as yours, how can a court be justified in closing mine up?

In this day and generation the law guards the public health very jealously, and will permit no one to set up a nu-



PARTERRE AT FAIRMOUNT PARK, PHILADELPHIA.

sance in a village, town or city, which is detrimental to the public health, that is which poisons the atmosphere or the water, but it will not stop a man's engine merely because it sends out an unpleasant odor or is noisy.

The introduction of large engines for purposes of cable roads, electrical plants, etc., are called for by the growth of cities and towns, and the law will lay down regulations as to the height of the chimney and the necessary strength of the walls to prevent any lateral vibration, but it will not say: "Send out no dust, no unpleasant odor and be perfectly noiseless."

It often happens that such plants are located next dwellings and render them unfit for residences, but yet no action will lie for nuisance.

To be a little more specific: If your florist's greenhouses are located in the business part of a city you have no right in law to object to any particular business which that city permits to be carried on within its limits. The mere fact of the factory coming next to you proves that your land has become too much shut in by the growth of the town to be any longer fit for the cultivation of delicate flowers which call for sunlight and pure air. You must yield to the inevitable—go where you may find sunlight and pure air.

The electrical plant is just as lawful a business as growing flowers, but they don't chime any better than the callings of cloth fuller and charcoal burner.

Yet understand me. I don't say in so

many words that you have no redress. It may be that the company in question has neglected some of the precautions which the law requires it to take. In that case you could interfere. I can see how in certain cases there would be an action for nuisance, but not in this.

Sometimes big corporations have soul enough to do a man justice in such a case without recourse to law. This may be one. Anyway, no doubt the lots would lease for a sufficient sum to hire land elsewhere, in a suburb. A city is a poor place to grow flowers, electric plants or no electric plants.

My advice to your friend is to look upon the building of this vast concern next door to him as part and parcel of the necessary growth of the city. It can't be helped. It can't be stayed. It may be a hardship, so is a street railway before your door, or a fire engine house in your block.

I doubt that a court of equity would grant your friend an injunction, and I don't advise him to ask for it. If he can't change his business so as to make use of his land, others will be willing to lease it for theirs, which may stand in need of motive power from the electrical plant. No doubt he is attached to his old stand after twenty years, but there is little or no sentiment in business matters.

However, although corporations as a rule have no souls, this one certainly has a spark and it may do your friend justice. If not, I'm afraid he must carry his roses to a sweeter atmosphere.

UNCLE BLACKSTONE.

Cleanliness in the Greenhouse.

I do not mean to touch upon the subject of personal cleanliness; that is something we naturally expect from everyone, but of cleanliness of the house, which we do not find as often, but expect nevertheless.

In the average run of greenhouses you will find more or less rubbish in the walks, under the benches and in out of the way corners; leaves, weeds, pieces of pots, hay, straw, broken glass and many other articles which are not only a nuisance in themselves and detrimental to the health of plants and man by their decay but give the place a slipshod appearance to the visitor, whether customer or not, especially to ladies.

Why not have a basket or box to put this litter in as it is made and at once remove it to a place especially provided for it. In other words have a place for everything and keep it in its place, whether tools, empty pots, rubbish or what not. It certainly will make your house look neater and cleaner and be an inducement to draw custom, and that is what we are all laboring for. If you have clean looking plants people will buy more and give a better price than if the pot is half full of weeds and the plant half covered with dead leaves, besides being better for the plants themselves.

You would not think much of a merchant if his store was in the condition of more than half the greenhouses in this country, and why should not you keep your place as neat as he does? It certainly is as much for your interest for you

to keep your place neat and tidy as for him, for is not your greenhouse your store or workshop? Try it once and see if neatness does not have as much to do with bringing your trade as perhaps any other one thing. ALFRED B. COPELAND, Springfield, Mass.

News Notes.

MEADVILLE, PA.—Geo. W. Haas added a new house 11x60 last fall.

ST. LOUIS—Oestertag Bros. have removed to 2334 Washington Ave.

LOWELL, MASS.—E. Sheppard & Son have opened a store at 43 Merrimack St.

DURHAM, N. C.—A chrysanthemum show will be given here next November.

LOS ANGELES, CAL.—The seventh annual flower festival opened April 6. A beautiful display was made.

CHARLESTON, S. C.—All the railroads made special low rates to the floral fair and there was a large attendance.

SAVANNAH, GA.—It is announced that the Floral and Art Association will not have any spring exhibition this year.

NYACK, N. Y.—W. Davidson has removed to Tenafly, N. J., where he is building three violet houses each 100 feet long.

CONCORD, N. H.—Florist George Main, who has been confined to the house since January 20, is now able to be out again.

TOLEDO, O.—Mrs. E. Suder has opened an additional store at 323 Adams street, still maintaining the Summit street place.

SEATTLE, WASH.—The Washington Floral Co. has opened a store at 908 Second street, to be conducted in connection with their greenhouses in the suburbs.

BELLEVILLE, ILL.—The St. Clair Floral Co. has been incorporated to conduct a general florists' business; capital stock \$6,000; incorporators, Alexander S. Halsted, Philip A. Kunz, Louis M. Kunz and Mrs. Kate D. Halsted.

PATERSON, N. J.—At the recent election Mr. H. E. Chitty, the florist, was elected alderman from the 4th ward by a majority of 602, his majority being considerably in excess of the entire number of votes cast for his opponent.

SPRINGFIELD, ILL.—The board of supervisors decided by a tie vote not to make the usual appropriation for planting the flower beds in the court house park, but four of the business firms on the square have agreed to bear the expense and the park will be decorated as usual.

DAYTON, O.—Frank J. Kunkel and J. B. Heiss are organizing a stock company to engage in wholesale plant growing and purpose erecting greenhouses comprising 30,000 feet of glass, adjoining the establishment of J. B. Heiss, with office at 116 South Main street.

PITTSBURG.—The first annual chrysanthemum show of the Pittsburgh and Allegheny Florists' and Gardeners' Club will be held at Central Rink, Penn. Ave., this city, November 10 to 12. The premium list has been printed and copies may be had on application to the secretary of the club.

SAN FRANCISCO.—The spring exhibition of the State Floral Society will be held in the Museum Hall of the Academy of Sciences. The date is May 6 to 8 as

previously announced. At the last meeting of the society papers were read upon "Camellias," "Tuberous rooted begonias," "Primulas," "Hibiscus" and "The new lawn."

BUFFALO.—The park commissioners recently presented to the city council a resolution asking that \$100,000 worth of bonds be issued for the permanent improvement of the proposed South Parks and the boulevards and approaches thereto, and the council directed the corporation counsel to prepare an enabling act to be presented to the legislature so that the bonds may be issued.

DENVER, COLO.—August Schenkel, the well known florist, shot and seriously wounded Irwin Lee, an employee, the evening of April 17. In the ensuing struggle between the two men Mr. Schenkel was seriously injured by being pounded over the head with a revolver, and it is thought he will not recover. Lee had been in Schenkel's employ for over a year and they had never before had any trouble. The dispute which terminated so seriously began over a trifling matter.

LOCKPORT, N. Y.—Elisha Moddy, a prominent citizen and one of the oldest horticulturists in the country, died April 18, at the age of 81 years. Mr. Moddy was the first president of the American Nurserymen's Association, and was one of its originators. He was elected to the State Assembly in 1867, and Mayor of Lockport in 1872. Governor Fulton appointed him Commissioner of Horticulture in 1867 to the Paris Exhibition, but he resigned. He was a large property owner, and leaves four children.

WASHINGTON.—Summer setting in so early and suddenly has completely flooded the market with cut flowers. An increase of funerals considerably beyond the ordinary number in April (25 daily) has stimulated trade somewhat in this line, otherwise the supply far exceeds the demand and the hawking around on the streets even of good merchantable roses materially depresses prices. Nevertheless the leading florists are doing "as good a business as can be expected." Hale in both of his establishments makes a more than ordinarily commendable display showing marked good taste in the arrangement of colors; the Gude Brothers are constantly out with novelties; at present it is gladiolus they display "en masse;" Smalls have palms and an exceptionally fine O. Jonesianum in their window; Strauss, Harris and Hydrangeas, while Stude exhibits superb specimens of La France and Am. Beauty, a vase full of the latter having vigorous stems none less than three feet in length and each bloom fully four inches or more in diameter.

Catalogues Received.

H. H. Berger & Co., San Francisco, bulbs, seeds and plants; J. A. DeVeer, New York, bulbs, seeds, plants and florists' supplies; California Nursery Co., Niles, Cal., ornamental trees, shrubs, fruit trees; same, general price list; Wm. Elliott & Sons, New York, special offer of Lilium Wallichianum; Nagel Greenhouses, Minneapolis, Minn., plants and nursery stock; E. V. Teas, Irvington, Ind., nursery stock; Richard Dean, Ealing, London, W. England, flower seeds.

C. J. PENNOCK should be added to the directory list at Kennett Square, Pa., as F.

A Giant Cineraria.

Mr. Peter Macdonald, Summit, N. J., has sent us a photograph of a cineraria. He states that the plant was two feet in diameter, two and one-half feet high, and carried over 350 well developed flowers. The seed was sown August 20, the first flowers were open January 5 and the flowers were still in good condition February 25.

A DOZEN blooms of the Snowflake daisy have been sent us by J. C. Gibson, Woodbury, N. J. Each one is double to the center and all exceed an inch in diameter. It is certainly a very fine double daisy.

You will benefit the FLORIST by mentioning it every time you write one of our advertisers.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED.—By practical florist and gardener; 15 years' experience; single; private preferred. Address W. N. 323 N. 2nd St., Phila., Pa.

SITUATION WANTED.—As foreman by a married man, of good experience; first class rose grower and propagator. Good references given. Address E. C. West Hoboken Portmouth, N. J.

SITUATION WANTED.—Meeting with reverses in business. I would like the management of a cut flower establishment out of town for the summer months, or longer if satisfactory to both. Address FLORIST, 322 West 7th Street, N. Y.

WANTED.—A man, second place, who understands general greenhouse work, steady job for right man. Address A. B. care Am. Florist.

WANTED.—A good grower of plants and cut flowers in a commercial place. A liberal offer will be given a good man. Apply with references or personal application preferred.

FOUNTAIN, Racine, Wis.

WANTED.—Active, intelligent young man as assistant in greenhouses, and who thoroughly understands bedding out. Good position and wages to right party. Address

E. W. WEIMAR, Mt. Vernon, N. Y.

WANTED.—A good second-hand boiler capable of heating 3,500 feet of 4-inch hot water pipes. Also 120 feet of 4-inch pipe for fairly a good order. Address with particulars,

F. N. care American Florist, Chicago.

WANTED.—To correspond with reliable party who thoroughly understands nursery and florist business, with a view of starting same near Baltimore and Philadelphia. Thriving town on Pennsylvania and B. & O. R. R. Address

Box 66, Aberdeen, Md.

WANTED.—At once a first class rose plant and cut flower grower, one who thoroughly understands the same, must be sober and industrious; state experience, references and wages expected; also a good practical second man.

WM. A. BUCK, 311 North Ave., No. Cambridge, Mass.

FOR SALE.—Rolltop Windmill, 12-foot wheel, in good order; 2,000 gallon tank, fittings and all complete (also four more) in fairly a good order. Will sell all cheap for cash. Address

815 Congress Street, Portland, Maine.

FOR SALE.—At a bargain, greenhouses and rest house and two lots in Holton, Kan. Holton well stocked with choice bedding and pot plants. All new, only half cost year. A bargain for a good florist. Holton is a college town. The cut flower trade is good. For terms, write to

Mrs. J. A. THOMAS, Holton, Kansas.

== THE ==

AMERICAN FLORIST

IS STRICTLY

A TRADE JOURNAL

DEVOTED TO THE BEST INTERESTS OF THE FLORISTS BUSINESS.

ISSUED WEEKLY, \$1.00 PER YEAR IN ADVANCE

ADDRESS: **AMERICAN FLORIST CO.**

54 La Salle Street, CHICAGO.

FORCING ROSES

NOW IN EXCELLENT CONDITION.

	2½-inch. Per 100
Duchess of Albany.....	\$7 00
Perle des Jardins.....	5 00
Niphetos.....	5 00
La France.....	5 00
C. Mermet.....	4 00
The Bride.....	4 00

Will book orders for later delivery from 2½, 3 and 4-in. pots. Write for prices.

BROWN & CANFIELD,
SPRINGFIELD, ILL.

Mention American Florist.

ROSES.

We still have ready for immediate shipment, in excellent condition, a fine assortment and true to name:

50,000 ROSES in 2-inch pots, \$35.00 per 1000, our selection; \$40.00 per 1000, your selection.

Send your lists to be priced for everything in the FLORISTS' line. Satisfaction guaranteed. Catalogues upon application.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

E. G. HILL & CO.,
RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAPLES:

ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.
Mention American Florist.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 2 and 4-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
LOUISVILLE, Ky.

1000 La France, 2½-in. pots, \$40 per 1000
500 Perles, 2½-inch pots, \$4.50 per 100
800 Gontiers, 2½ in. pots, " per 100
500 Brides, 2½ inch pots, " per 100
5000 Verbenas in bloom, \$35.00 per 1000;
\$4.00 per hundred.

DE WITT BROS., Bristol, Pa.

ROSES.

Thirty thousand plants, PERLES, BRIDES, ETC., ready for delivery.

Address **GERMOND & COSGROVE,**
Rockland County, SPARKILL, N. Y.

ROSES.

All the best varieties for forcing, and also for bedding out, in 2 and 2½-inch pots, \$4.50 per 100; \$6.00 per 1000. Own selection, \$35.00 per 1000. Roses in 3, 4 and 5-inch pots at lowest rates. Also greenhouse and bedding plants.

Price list free on application.

Address **A. LAUER,**
1210 E. Broadway, LOUISVILLE, KY.

JACQUEMINOT ROSES.

Jacqueminot roses, six to ten inches high, from cold frame, \$6.00 per 100. Rooted colors, golden bedder and verchaffelti, \$10.00 per 100. Golden verchaffelti and Sunset, \$5.00 per 1000. Ten varieties mixed, \$6.00 per 1000. Helicrops, fuchias, vines variegata, \$1.00 per 100. All guaranteed to be good, strong cuttings, well rooted. Money returned on any return, or shipments will be made C. O. D.

JOHN RECK, Bridgeport, Conn.

Waban Rose

READY MAY 15.

From 2½-inch Pots.

1 Plant, \$1.00.	25 Plants, \$0.00.
12 Plants, \$4.00.	500 Plants, 15.00.
50 Plants, 23.00.	1000 Plants, 30.00.
100 Plants, 50.00.	

From 4-inch Pots.

1 Plant, \$1.50.	50 Plants, \$40.00.
12 Plants, 15.00.	100 Plants, 50.00.
25 Plants, 25.00.	

The following Agents have been appointed to sell the Rose in the respective territories given below:
WM. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.
JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.
ROBT. CRAIG, 49th and Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.
J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.
EUROPEAN AGENTS: **WM. PAUL & SON, Waltham Cross, England.**

ROSES. * ROSES.

WABAN, SOUVENIR DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other NEW and Standard Varieties of TEAS; Hybrid Remontant, including HEINRICH SCHULTHEIS, which is by far the best early forcing Hybrid. This is the variety which MR. JULIUS ROEHRs has forced so successfully for the past three years. Also all the best varieties of

HYBRID TEAS, CHINAS and BOURBONS,

For forcing, bedding, etc., etc., all of which I have an EXTRA fine stock now ready for shipping at prices as low as any one can produce such stock for. NEW PRICE LIST TO THE TRADE NOW READY.

JOHN N. MAY,
SUMMIT, - - - NEW JERSEY.

ROSES FOR FLORISTS.

OVER THREE HUNDRED AND FIFTY VARIETIES ON SALE, Ready for Immediate Delivery.

We offer the largest and most complete stock of Roses in this country. Straight 2½-inch plants propagated from well matured field grown plants, and grown in ordinary soil without manure or any stimulating material whatever.

Our Roses Resist Disease, Start Quickly, Grow Rapidly and Always give Best Results.

All the Newest and Choicest Roses for Sale and Bloom. The famous New American Pedigree Roses—Henry M. Stanley, Pearl Rivers, Mrs. Jessie Fremont, Maud Little and Golden Gate. If you want to buy Roses send your lists and have them priced. Prices low, according to value of varieties and size and character of order.

The New White Chinese Wistaria, the finest of all. New Chinese Double Purple Wistaria, very rare, Wistaria Sinensis, Magnifica and Frutescens. Fine Hardy Shrubbery, all varieties, cheaper and better than imported.

New Chrysanthemums, Harry E. Weidener, Ada Spaulding, V. H. Hallock, Louis Boehmer, Mrs. Alphens Hardy, Nympha and 100 other newest and best vars. for all purposes. **THE BEAUTIFUL MANTILLA VINE, new MOON FLOWERS,** etc. Wholesale Price Lists FREE to Florists, Market gardeners and Dealers only.

Address **THE DINGEE & CONARD CO., WEST GROVE, PA.**

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices Now Ready.

"THE RAINBOW."

Cut blooms of "THE RAINBOW" bring a higher price than paid for any of the hybrid teas in the San Francisco market. Strong plants from out doors in best possible condition for shipment.

Per dozen, \$4.00. Per hundred, \$25.00. Per thousand, \$200.00.

Special rates offered for quantities from 5,000 and upwards.

JOHN H. SIEVERS,

25 Post Street,

SAN FRANCISCO, CAL.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
 Inch, \$1.40; Column, \$14.00.
 Cash with order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent.; 13 times, 10 per cent.;
 25 times, 20 per cent.; 52 times, 35 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

ADVERTISING EXHIBITIONS.

As the plans for exhibitions are being considered don't overlook the matter of advertising. Be your show ever so good it is still necessary to let the people know about it in order to secure their attendance. This is a matter that is frequently overlooked or slighted and such neglect has probably done much to make a financial failure of many exhibitions. The managers of exhibitions are for the time being showmen, and they must—in a measure at least—adopt the tactics of the successful showmen if they would make the show a financial success.

Among your committees there should be one on advertising. This committee should be authorized to expend a stated sum in advertising the exhibition and it is necessary that the committee have its work mapped out long before the exhibition opens. And by the way when attention has been taken on the advertising question and the amount to be expended has been determined, the members of the committee should avail themselves of the first opportunity to incidentally make known to the publishers of the local papers the fact that money will be expended for advertising and that the one addressed will receive a liberal share of the patronage. This has a decided stimulating effect on many publishers and as a result free advance notices come easier. As to the amount to expend for this purpose no ironclad rule can be laid down. It ought not to exceed 20% of the amount you offer in premiums and in most cases probably 10% of that amount would be about right. You should have a liberal advance notice on the Saturday or Sunday before the show opens and then a generous sized card in every day until the exhibition closes. But when newspaper advertising must be the main dependence, especially owing to its value as a stimulator of liberal reading notices and news notes regarding the show, there are other means that should be employed. The committee should have printed on a cardboard of convenient size, an announcement that may be hung up in the store or greenhouse of every florist in the place for at least a month before the opening of the show. Another good plan is to have a similar announcement printed on a slip or card and have florists enclose one in every box of flowers they send out, also in the envelopes with bills, statements and letters mailed. These go to just the class of people you must be sure to reach, and they should be reached early as they are the most apt to be sufficiently interested to speak to their friends of the coming event and thus arouse an interest in others.

Now a word about writing the matter for your announcements in the daily press. Boil your story down to the

fewest possible words. The more matter you put in the space the less display you will have, and you positively must have display to catch the eye. In building up a card of the kind wanted you must have some one bold striking line that is sure to catch the eye, and this line should express tersely your main claim upon public attention. The shorter the line, the larger the type to fill the line and the bolder the display. In our own experience, after trying all possible combinations we settled upon the two words "Flower Show" as the best, taking all points into consideration. The exhibition for which the adv. was prepared was really mainly a chrysanthemum show but the word "chrysanthemum" is not only a very long one but it is also one that would not carry to the minds of the readers of the daily press so clear and distinct an impression as would the one adopted. As an illustration of the thoughts it is intended to convey we give below some advs. prepared for the last exhibition of the Chicago Florist Club. They also illustrate another point and that is that the same adv. should not be used every day. With the exception of the announcement which appeared in the Sunday papers prior to the exhibition, and which occupied much more space than these, and held much more descriptive matter, the advs. are the same as those used, both in space and display. The exhibition opened Tuesday and the adv. for Monday was identical with that for Tuesday except that the words "Beginning to-morrow" appeared in the space occupied by "now open" in the Tuesday adv. Following is the adv. for Tuesday:

SECOND REGIMENT ARMORY.

Michigan-av., between Madison and Monroe-sts.

NOW OPEN.The Chicago Florist Club's
Third Annual**FLOWER SHOW.**

Admission 25 Cents.

Exhibition open from 10 a. m. to 10 p. m. You will miss a treat if you fail to visit this exhibition. Will close Friday evening.

The advs. for Wednesday and Thursday were the same as the above except that the "Now open" was omitted.

The adv. for Friday was as below:

SECOND REGIMENT ARMORY.

Michigan-av., between Madison and Monroe-sts.

LAST DAY

OF THE

FLOWER SHOW.

Admission, 25c. Open 10 a. m. to 10 p. m. Don't miss this last chance to see this beautiful display.

The intention was to have the advs. changed daily, announcing the special feature for the day, as: "Parlor decorations to-day. Table decorations to-morrow." "Table decorations to-day. Wedding baskets to-morrow," etc, but owing to lack of time to prepare the copy the plan was not put into execution. We still think the idea a good one. People like things fresh and new. In this connection we might mention a part of the same plan that was executed, viz: the

preparation of large cardboards lettered with announcements of the special features for the following day. These were posted in conspicuous places around the exhibition hall and were undoubtedly of great value in inducing those who attended once to come again the following day.

We should be pleased to hear from others on this subject.

WE HAVE received a copy of the preliminary schedule of prices offered for chrysanthemums and other plants and flowers at the exhibition to be held at the Madison Square Garden, New York, November 2 to 8 next. Over \$6,000 is offered in cash premiums, of which \$3,922 is offered for chrysanthemum plants, \$724 for chrysanthemum flowers, \$901 for miscellaneous plants, and \$675 for orchids. The prizes are very liberal throughout, those for 25 specimen plants, distinct varieties, being first \$350, second \$175 and third \$125. The prizes for 25 standards are \$150, \$125 and \$100, and for 15 standards \$100, \$75 and \$50. Prizes of \$100, \$75 and \$50 are offered for "group of chrysanthemums arranged for effect, in which palms, ferns or other plants may be introduced, occupying 100 square feet." In miscellaneous plants the leading prizes are for "25 palms grouped for effect," first \$150, second \$100 and third \$50, and for "best collection of 25 ornamental foliage and flowering plants arranged for effect," \$100, \$75 and \$50. In orchids the premier prize is for "collection of plants in flower, arranged for effect, named," first \$200, second \$150 and third \$100. In addition to the cash prizes cups are offered for the best seedlings in white, pink, yellow crimson, bronze and any other color. And a silver cup is offered by the United States Nurseries for collection of named cypripediums in flower. Such liberal prizes should bring out a magnificent display. Copies of the premium list may be had on application to J. W. Morrissey, Sec'y, Madison Square Garden, New York.

A CORRESPONDENT writes that he received some roses from a wholesale grower and the plants of such standard sorts as Malmaison, Mme. Margottin and Bride were only one to two inches in height. He asks us if we would call that first class stock. No, hardly first class, though for 2-inch pot stuff it might be no higher and still be good stock. We have seen plants five and six inches high that were inferior to some having a height of but two inches. The value of a young rose plant depends so largely upon its condition and strength regardless of height that we can not intelligently answer the question.

WE NOTE that some of the premium lists we have received do not give the name and address of the secretary of the organization issuing the same. This is unfortunate for when such address is not given how is anyone interested to correspond with the club?

YOU CAN give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

THE NEW YORK daily papers are devoting considerable space to talk about the Union Square Flower Market. And now the Philadelphia papers have caught the fever and are talking up a flower market for that city.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.
All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

A. L. RANDALL,
(SUCCESSOR TO)
C. H. FISK,
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.

E. J. HARMS,
Wholesale Dealer in
CUT FLOWERS,
And Florists' Supplies.
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese,
Wholesale Cut Flowers,
66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
given to shipping orders.

C. STRAUSS & Co.
GROWERS OF CUT FLOWERS.

—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

**Wholesale
Florists**

LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

G. E. & S. S. PENNOCK,
WHOLESALE FLORISTS,
38 S. 16th Street, Philadelphia, Pa.

CUT FLOWERS.
The Western Trade Solicited.

Write or Telegraph.—
SMITH FLORAL CO.,
77 7th Street S. - Minneapolis, Minn.

F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.
Specialties in Lilies of the Valley, Azaleas, Ca-
mellias in sorts, best varieties in Palms
and Dwarf Roses.

Wholesale Catalogue on application.

Wholesale Markets.

Cut Flowers.

	BOSTON, April 27.
Roses, Jacobs	5.00 @ 12.00
" Pen	1.00
" Fancy	3.00 @ 5.00
Geraniums	50 @ 1.25
Valley	3.00 @ 4.00
Daffodils	1.00 @ 2.00
Tulips	1.00 @ 2.00
Panicles	1.00 @ .50
Silene	1.00 @ 1.00
Mignonette	15.00 @ 25.00
Snail	1.00 @ 1.50
Adiantum	50 @ 1.00
Asparagus	3.00 @ 4.00
Salvia, Calcea	1.00 @ 1.00
Candianum	1.00 @ 1.00
Pinks	1.00 @ 1.00
Hellebore	2.00 @ 2.00
Myosotis	1.00 @ 1.00
Heath	1.00 @ 1.00

	NEW YORK, April 27.
Roses, Beauties	5.00 @ 25.00
" Florida	5.00 @ 25.00
" Bon Silence	50 @ 1.00
" Gontiers	1.00 @ 2.00
" Perles, Niphetos, Souvs	1.00 @ 3.00
" Marmets, Brides	1.00 @ 3.00
" Waterlilies, Canas	1.00 @ 3.00
" Hostes, Woottons	1.00 @ 3.00
" La France, Albany	1.00 @ 3.00
" Jacqs	1.00 @ 10.00
Valley, daffodils	1.00 @ 2.00
Tulips	2.00 @ 3.00
Violets	25 @ .25
Myosotis	1.00 @ 1.00
Carnations, long	50 @ .25
Smilax	20.00 @ 20.00
Harrial lilies	3.00 @ 5.00

	PHILADELPHIA, April 27.
Roses, Beauties	5.00 @ 40.00
" Brunners	40.00
" La France, Albany	35.00
" Lailas, Lailas	35.00
" Jacqs	10.00
" Marmets, Brides	1.00 @ 5.00
" Cousins, Waterlilies	1.00 @ 8.00
" Woottons, Hostes	5.00
" Perles, Niphetos	3.00 @ 4.00
Carnations	1.00
Valley	4.00
Tulips	1.00 @ 5.00
Daffodils, single	2.00 @ 5.00
Sweet peas	2.00
Adiantum	1.00
Smilax	30.00 @ 35.00

	CHICAGO, April 28.
Roses, Bon Silence	1.00 @ 2.00
" Perles, Niphetos	1.00 @ 4.00
" Marmets	1.00 @ 2.00
" La France	1.00 @ 5.00
" Brides	1.00 @ 5.00
" Beauties	1.00 @ 12.00
" Gontiers	2.00 @ 3.00
" Cousins	5.00 @ 15.00
" Albany	5.00 @ 7.00
" Jacqs	3.00
Carnations, short	75 @ 1.00
" long	5.00 @ 5.00
Valley, Romans	3.00 @ 4.00
Callas	5.00 @ 10.00
Harrial	5.00 @ 12.00
Violets	40 @ .20
"	40 @ .20
Smilax	15.00 @ 25.00
Dutch brachitis, outdoor grown	2.00 @ 3.00
Daffodils, outdoor grown	1.00

WM. J. STEWART,
Cut Flowers & Florists' Supplies
— WHOLESALE. —

67 Bromfield Street, BOSTON, MASS.

GEO. MULLEN,
WHOLESALE FLORIST.
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House).
BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express
promptly filled.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and
other Flowers carefully packed, to all points in
Western and Middle States. Return Telegrams are
sent immediately when it is impossible to fill order.

**WHOLESALE CUT FLOWERS AND
FLORISTS' SUPPLIES.**
THE WISCONSIN FLOWER EXCHANGE,
131 Mason Street, MILWAUKEE, WIS.

When writing to any of the adver-
tisers on this page please mention the
AMERICAN FLORIST.

THOS. YOUNG, JR.,
WHOLESALE FLORIST

20 West 24th Street,
NEW YORK.

LILY OF THE VALLEY,
And the Choicest ROSES for the
fall and winter season.
Mention American Florist.

W. S. ALLEN,
Wholesale Dealer in Cut Flowers

36 EAST 23rd STREET, NEW YORK.
(ESTABLISHED 1871.)
Price List sent upon application.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

JOHN YOUNG,
WHOLESALE FLORIST
53 WEST 30TH STREET,
NEW YORK.

A. S. Burns. J. I. Raynor.
BURNS & RAYNOR,
WHOLESALE FLORISTS,
11 West 28th St.,
NEW YORK.

N. F. MCCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carna-
tions always on hand. Return telegrams sent
immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

ELLISON & KUERN,
— WHOLESALE —
FLORISTS,
1122 PINE STREET,
ST. LOUIS, MO.

Cape Jasmines.
About April 25th we will be prepared to ship CAPE
JASMINES and MAGNOLIA BUDS in large quantities
to any point in the North safely. Also Gray
Stems, Magnolia Polare, Cut Ferns and a variety of
other evergreens; also Magnolia seedlings and plants
in any size. When you have a big decoration it will
pay you to correspond with us. Prices on applica-
tion. Give us a trial.

FT. WORTH NURSERY, SEED AND CANNING CO.,
910 Main Street, DALLAS, TEXAS.

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SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FORTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1901.

VISITED CHICAGO last week: Mr. E. Benary, Erlhart; W. H. Maule, Philadelphia; F. Howcroft, London; Carlos Liebert, Mexico; W. B. Hayt, of Cleveland Seed Co.

GUSTAV DIPPE, founder of the house of Dippe Bros., Quedlinburg, Germany, died at San Remo, in Italy, early in February. He leaves a fortune of five million dollars, the result of his success in improvements in sugar beets.

The Indianapolis *Journal* of April 23 prints the following item: "Margaret Martin brought action for \$1000 damages in the Superior Court, yesterday, against the J. A. Everett Seed Company, whose place of business is No. 141 West Washington street. The complaint alleges that the defendant obstructed the sidewalk causing the plaintiff to fall, and resulting in serious and permanent injury to her."

Coming Exhibitions.

May 6-8, San Francisco.—Annual flower show California State Floral Society.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 2-8, New York.—Chrysanthemum show Madison Square Garden.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society.

November 10-12, Pittsburg.—Chrysanthemum show Pittsburg and Allegheny Florists' and Gardeners' Club.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society.

November —, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore.

Funeral Designs.

Herewith I send you two clippings from the Toronto *Evening Telegram*, the editor of which has entered on a crusade against funeral designs. You will notice that he slashes right and left regardless of friend or foe and that all the blame for the abuse of a beautiful custom is laid to the door of the florist, the one to whom really least blame is due. It is difficult to understand why this editor publishes these tirades against florists. He is not by any means a mean man. The other day he donated \$10,000 to a sick children's hospital, and I never heard of any circumstance having happened to set him against florists.

Perhaps the editor of the *AMERICAN FLORIST* or some of the readers of that journal can give the florists of this city some good advice in the matter. E.

Toronto, Ont.

[The accompanying clippings were of a tenor to make the average florist's hair stand on end. The editor of the *Telegram* evidently threw the throttle wide open when he penned the copy. But the florists of Toronto have no cause for alarm, and we would advise them to simply ignore such vapors. It would be worse than a waste of time to argue with the author of them. His arguments could be easily picked to pieces and the absurdity of many of his statements could be readily demonstrated to a disinterested party, but never to him. He is evidently a fanatic and any attempt to argue with him would simply add fuel to the fire. Many of the funeral "designs" are certainly open to criticism, but the sweeping condemnation of the editor of the *Telegram* is more than absurd. The intensity of his strictures kills the force of his own argument.—Ed.]

WE HAVE recently had complaint that a swindler calling himself a florist, last fall located in a western city and has been ordering right and left from advertisers' florists' goods and plants. If the same were shipped C. O. D. he refused them, if not he accepted them and sold them for anything he could get, with the evident intention of letting those who had trusted him whistle for their money. We have not sufficiently investigated the case to warrant us in publishing the party though we are pretty well convinced of the correctness of the statements made by the complainant. But we have reported the facts with name to the secretary of the Florists' Protective Association, from whom full information can be had by members. And by the way, every wholesale grower and dealer should be a member of this association. The association can be made a power in the work of freeing out the professional dead-beats who have attached themselves to the trade and it is to the interest of every retailer to assist in the work of extermination.

NURSEYMEN will be particularly interested in bulletin No. 10 issued by the Division of Vegetable Pathology of the U. S. Dept. of Agriculture. It is devoted to the treatment of nursery stock for leaf-blight and powdery mildew and the subject is treated by Prof. B. T. Galloway, chief of the division. Prof. Galloway has made many experiments and says they have proved conclusively that powdery mildew of the apple, leaf-blight of the pear, plum, cherry and quince can readily be controlled at comparatively little expense. The bulletin contains a record of the experiments and descriptions of the

fungicides used with methods of applying. The cost of treatment is also given. Nurserymen may obtain copies of the bulletin by addressing the division at Washington.

ANOTHER complaint regarding the laxity of several well known houses in the trade in attending to their correspondence has reached us. It reads: "A shiftless way to do business. Receive your order and the cash and then let you wait 30 to 60 days for a response of any kind. They might send a postal card to the buyer and inform him that the goods would be shipped in six months or a year." Wholesale growers and dealers who have been guilty of such neglect would do well to put themselves in the customer's position and review the situation. They will find it money in their pocket to give no cause for such dissatisfaction.

THOSE who have been enquiring as to the price of admission to the exhibitions in the larger cities are advised that the admission price to the exhibitions of the Massachusetts Horticultural Society at Boston is 25 cents, and to those of the Pennsylvania Horticultural Society at Philadelphia 50 cents for adults and 25 cents for children. At the exhibitions of the Chicago Florist Club the admission price has been 25 cents.

THE CITY of Toronto, Ont., has 1,046 acres of public parks, gardens and squares. Of the parks the largest is High Park containing 375 acres. Island Park stands next with 300 acres, and Riverdale Park and Queen's Park each exceed 100 acres.

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the *AMERICAN FLORIST*. You will benefit us by letting advertisers know that it is the *FLORIST* that is bringing them trade.

WE UNDERSTAND that an unusually interesting programme is being prepared for the next meeting of the American Association of Nurserymen which will be held in Minneapolis in June.

THE CITY government of Boston is considering the question of decorating the school yards with plants to be planted and kept in condition by the park department.

MR. H. B. BEATTY, secretary of the Florists' Protective Association, has been laid up with La grippe for the last three weeks at his home in Oil City, Pa.

WHEN you write an advertiser tell him that you saw his advertisement in the *AMERICAN FLORIST*.

MAGNOLIA CONSPICUA was in bloom at Baltimore April 16.

TUBEROSES.

Pearl, medium bulbs, per thousand, \$4.00. Samples free.

J. C. VAUGHAN, CHICAGO.

THE AMERICAN FLORIST

AND

THE AMERICAN GARDEN

In Club one year for \$2.50.

Address AMERICAN FLORIST CO.,

54 La Salle St., CHICAGO.

ALWAYS mention the *AMERICAN FLORIST* when writing to advertisers.

SPECIAL LOW PRICE Lilium Harrisii and Longiflorum Bulbs

Having just returned from a trip to the Bermudas where I went to have a good look after the Easter Lilies, and having made arrangement with the largest growers of these beautiful bulbs for a large quantity of their crop, we are now able to offer good, healthy and pure bulbs—June and July delivery, at the low rate of:

4 to 5-inch circum.....	Per 100
5 to 7-inch	\$ 35 00
7 to 9-inch	45 00
9 to 11-inch	70 00
	115 00

LILIUM LONGIFLORUM same price and sizes as above. Delivery in August. Please order before May and oblige. Yours respectfully,

HULSEBOSCH BROS.,
P. O. Box 3118. NEW YORK CITY.

L. CANDIDUM

Strong Bulbs,
from Cold Storage,

PER 100, \$4.50.

J. G. VAUGHAN, CHICAGO.

J. A. De Veer,

154 East 34th St., NEW YORK.

A full line of Summer Flowering Bulbs,
Seeds, Plants and Florists' Supplies
furnished at lowest market prices.

CATALOGUE FREE TO APPLICANTS.

C. H. JOOSTEN,
3 Centuries Slip, - NEW YORK,
—IMPORTER OF—

Bulbs and Plants.

PRICES ON APPLICATION.

CHOICE MIXED LAWN GRASS,
in 1, ½ and ¼ lb. pkgs. at 18c. per lb.

Headquarters for Phila. Lawn Mowers
AND REPAIRS.

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO.

Do you want the

BEST SEEDS?

If so, send to

SCHLEGEL & FOTTLER,
Growers and Importers,
BOSTON, - - MASS.

G. J. MOFFATT,
Manufacturer of

SEED BAGS
ENVELOPES OF ALL KINDS.

Printing a Specialty.

NEW HAVEN, CONN.

Samples and prices on application. When writing for prices, please state size and quantity wanted.



**TRY DREER'S
GARDEN SEEDS**

Plants, Bulbs, and
Requisites. They are the
best at the lowest prices.
TRADE LIST issued quarterly,
mailed free to the trade only.

HENRY A. DREER,
Philadelphia

FOR SALE OR EXCHANGE.

Eucharis Amazonica; also Ardisia, and pure
white and other Cyclamen bulbs. Let us know
what you have. **M. E. CATLIN**

723 Laurel St., Richmond, Va.

Z. DE FOREST ELY & Co.,

WHOLESALE

Seed Growers and Merchants.

Carry one of the most complete and extensive stocks of **GARDEN SEEDS** in the United States. We make a specialty of **GROWING PEAS and BEANS, AMERICAN TURNIP and CABBAGE SEEDS, ONION SETS and PURE SEED POTATOES.** We cater to the Jobbing trade. **WRITE FOR PRICES.**

✻ **NOW READY.** ✻

	Per 100	Per 1000
TUBEROSES, DOUBLE PEARL.		
Fine Large Bulbs.....	\$1 00	\$ 7 50
GLADIOLUS, FINE MIXED.	1 25	10 00
EXTRA CHOICE.	1 75	15 00
SHAKESPEARE.	7 50	

Also Importers of

Bulbs for Florists.

Dutch and Roman Hyacinths, Tulips, Narcissus and True Bermuda Lilies, (L. Harrisii.) Special import offer for Fall and Summer of 1891 **NOW READY.** Do not fail to write for it. Liberal terms, fair prices, selected quality and square business treatment. Address

Z. DE FOREST ELY & CO.,

1301 and 1303 Market Street,
and 246 North Broad St.

PHILADELPHIA, PA.

P. O. BOX 1176.

Registered Cable Address, DEFOREST, Phila.

TELEPHONE 1298.

BULBS. BULBS. BULBS.

CHINESE NARCISSUS.

ORDER NOW if you wish to secure **BEST GOODS** at **Lowest Rates.**

AURATUM, LONGIFLORUM, RUBRUM,  **KRAMERI, ALBUM, ETC. CALIFORNIA BULBS.**

We guarantee you **best stock** at the **most reasonable rates** if **ordered now.**

AUSTRALIAN PALM and CALIFORNIA FLOWER SEEDS.

— SEND FOR OUR NEWEST TRADE PRICE LIST. —

H. H. BERGER & CO. P. O. Box 1501. SAN FRANCISCO, CAL.

— Facts —

*We were the first to offer
true, healthy, Lilium Harrisii at low prices.
Florists showed their appreciation;
the bulbs gave satisfaction!*

*Our stock, from same growers as last year, will be ready
for delivery in July, it is first class in every respect
and price reasonable. — Send list of your wants
for estimate, also of French and Dutch bulbs.*

*Joseph Bruck & Sons,
57, 52, 55 North Market Street, Boston, Mass.*

FOR SALE.

THE CUTS

USED IN ILLUSTRATING THIS PAPER.

Write for prices on any which you have seen
in previous issues and would like.

AMERICAN FLORIST CO.
CHICAGO.

CHINESE PRIMROSE SEED.

Finest colors; large flowers; fringed; all strong
growing kinds; bloom thrown above the foliage.

Special trade pkts. for florists, 100 seeds, price \$1.
Circulars sent on application. Address
HENRY S. RUPP & SONS, Shiremanstown, Pa.
Mention American Florist.

ECHEVERIA SECUNDA GLAUCA.

Extra fine plants, - - \$4 00 per 100
Smaller plants, - - - 1 50 per 100

Please mention American Florist.

CHAS. HEINZ, SHARON, PA.

Does It Pay?

An eastern florist sends us three advs. which appeared in a local paper on consecutive days. The first one appeared Monday, March 9, the second one Tuesday, March 10, and the third one on Wednesday, March 11. We give them below for the edification of our readers, suppressing the names of course.

SEE THIS.

First quality Pinks, \$0.18 per dozen.
Fancy Roses, 1.00
Tea Roses, .50
Daffodils, .50
Hyacinths, .50
Jonquils, .50
Tulips, .50
Lily of the Valley, .50
Fancy Pinks, .35
We are the only firm in the city that carry a large first class lot of pinks. Our receipts are over 1000 per day.

BLANK & CO., 263 Main St.

1450 PINKS MONDAY. 1450

AND OFFER A FINE LOT TO-DAY.

You are right, I do not carry a large stock of Fancy Pinks, but I do let my customers carry them at 18 cents per dozen. They say they are fine, and that suits me. My Pinks are all fancies and going at only 18 cents per dozen.

I have in my greenhouses 15,000 Blooming Plants of all kinds, you can readily see that my Pinks are fresh cut.

Fancy Roses	\$1.00 per dozen.
Tea Roses	50 cts. per doz.
Daffodils	50 cts. per doz.
Jonquils	35 cts. per doz.
Paper Whites	35 cts. per doz.
Lily of the Valley	50 cts. per doz.
Violets (light or Dark)	35 cts. per bu.
Freeseas	35 cts. per doz.

DASH'S,

OPPOSITE NEW POSTOFFICE.

JACQUE ROSES.

THE BLANK FLORAL CO.,
331 Main Street.

FACTS.

A great deal is said by florists about growing their own flowers, assuming that they can sell much cheaper than those that buy their supply. This is not the case. In the first place the florist that grows his own flowers naturally wants to sell his own growing first. No matter how poor it is, it saves buying. No one disputes that. The florist that grows nothing, but goes into market and buys the best there is, has a far better chance. He can take his pick, and by paying a little more can have the best there is to be had, while he can get second grade stuff for a song—if he is a good singer. These are facts that can't be disputed. Not put too much dependence on advertisements, but compare quality and prices, and you will find that you get better satisfaction from us than from any other place in this section. We challenge competition on Roses, Daffodils, Valley, Hyacinths, Lilacs and any other flowers, while in Pinks, that are so much talked about, we defy any in this market to produce better Buttercups, Pink, Scarlet, Wine, White or Maroon colors. We grow nothing, but buy the best in market, thus always at the head, at as low prices as inferior flowers are often quoted.

Our correspondent advises us that this sort of competition has been going on for some time and was not confined to the dull Lenten season. Also that one of the parties actually bought pinks out of town, paid \$1.50 a hundred for them, to which was of course added express charges, and then paid their help to sell them over the counter at 18 cents a dozen.

This sort of work can not continue long as those indulging in it must know. And the unfortunate part of the matter is that those taking no part are also made to suffer. If it injured none but those engaged in it the natural remedy in the person of the sheriff would in time appear and all would be well, except for the injury which is always done to a business through having retail prices cut below cost.

We believe that moderate prices are better for the trade than exorbitant ones. In the long run, but one extreme is as bad as the other, and flowers, owing to their perishable nature, can not be sold on as small a margin as most other merchandise.

Lilium Harrisii.

In reply to B. Ackley in your issue of the 16th inst. in reference to his one Harrisii with "14 buds and blossoms" I have to say, I had among others this year the following:

1 with 15 buds and blossoms,	
1 " 18 " "	"
1 " 19 " "	"
1 " 21 " "	"
1 " 21 " "	"
1 " 22 " "	"
1 " 23 " "	"
1 " 24 " "	"

8 163

Average 20.

The Florist of the 26th ult. in commenting upon those that I had at the Philadelphia exhibition said: "The Lilium Harrisii exhibited by Michael Sammon, gardener to Jos. M. Shoemaker, Esq., were the finest ever seen in Philadelphia," etc. MICHAEL SAMMON.

Germantown, Pa.

Would say to Mr. Ackley, page 694, the finest of L. Harrisii we have seen lately was at Easter at M. R. Catlin's greenhouses in Richmond, Va. All were exceptionally floriferous, on stems 2 to 4 feet, one bearing 17 fine flowers. This was favorably commented on by a stranger who has seen much in flower culture. H.

In answer to Mr. Ackley, I do not think his Harrisii were anything wonderful. I have had them this season with stems 5½ to 6 feet high and with from 11 to 15 flowers, and now the same bulbs are showing a second crop of from 5 to 6 buds. Bulbs were only 5x7, and out of 350 bulbs I have had flowers from Thanksgiving to the present time.

Belleville, Ill.

E. W. Giv.

Violet Crops Again.

On page 672, AMERICAN FLORIST, Mr. John Wiede gives number of violets picked from 1,200 plants from October 20 to March 31, and wishes to hear from other growers if any have done better. Well, here you are John. I have 744 plants of Marie Louise violets occupying a space of 400 square feet, from which I have picked as follows:

October	1,600 blooms,
November	2,590 "
December	3,555 "
January	5,400 "
February	7,300 "
March	5,425 "

Total 25,870

This is a much better showing as my average from each plant is about 34 blooms, while Mr. Wiede's average is only about 18 blooms.

I have had some violet disease, but could always trace its origin to ill-treatment. I believe that either a very severe drought or overwatering will bring on an attack of violet disease, but have always been able to control it by extra careful treatment. I grow the plants on a bench in 5 inches of soil. House faces south. Night temperature 45° to 50°. Plenty of air in the day time. HARRY DALE.
Brampton, Ont.

Philadelphia.

"EXHIBITION ECHOES" AGAIN.

If Mr. Heacock will read again the notes under the above heading (page 637), he will find that his nor any other's name was mentioned as having exhibited flowers in the "Growers Class" that they had not themselves grown, hence there was no necessity for his defense.

He may rest himself assured that if there had been no occasion for sounding the alarm it would not have been done.

Men and florists who have been in touch with the best interests of the time-honored Penna. Horticultural Society for many, many years unanimously declare in favor of the timely warning.

EDWIN LONSDALE.

Look Out for Him.

A young man by the name of Robert Warj, who has been working for several florists in Louisville, is wanted by his last employers, whom he left without notice.

Description: Age 28, weight about 160 pounds, height 5 feet, 9 inches, color of eyes gray or blue, slightly bald on one side of his head, a dented place across the back of his head where he had been hit with a club he said, nose large and crooked to one side, often spoke of his home as being in Tennessee and of living at Nashville, pleasing manners, but would not look any one square in the eyes. Likely he will assume another name after leaving Louisville. E. W.

For Early Cash Orders.

Aristofolia (Dutchman's Pipe) seedlings 1 ft.	\$10.00
Tritoma Uvula	2.00
Hardy Moonflower (l. pandurata), mail sale	\$40.00
No. 2 for transplanting	20.00
Helianthus multiflora pl. crowns	15.00
Hyacinthus Candicans, 2 and 3 years	5.00
Double Tiger Lily No. 1	20.00
small, for transplanting	10.00

List free.

E. Y. TEAS, MANAGER,
Near Indianapolis. IRVINGTON, Marion Co. IND.GREENHOUSE STOCK FOR SALE,
AND LEASE THE HOUSE.

Good, healthy stock, well established. Sickness the cause of selling.

CHAS. P. CASKY, Greensburg, Ind.

THE AMERICAN FLORIST CO.'S

TRADE

DIRECTORY

{ FLORISTS,
OF NURSERYMEN,
SEEDSMEN,

OF THE

UNITED STATES AND CANADA,

1890.

No one in the Trade can afford to be without it.

PRICE, \$2.00.

ADDRESS:

AMERICAN FLORIST CO.

54 La Salle Street, CHICAGO.

Chrysanthemums.

Catalogue with description of my two new sets now ready. Sent on application.

The following varieties are offered at \$1.00 per 100 for cash:

KIOTO, L. B. BIRD, H. CANNELL, GOLD,	
PURITAN, GLORIOUS, CULLINGFORDII,	
GRANDIFLORUM, M. E. NICHOLS, L. CANNING,	
E. G. HILL,.....	\$10.00 per 100
W. H. LINCOLN,.....	6.00 per 100
Avalanche,.....	9.00 per 100
Louis Buchner,.....	5.00 per doz.
H. E. Widener,.....	1.50 per doz.

JOHN THORPE

PEARL RIVER, NEW YORK.

Mention American Florist.



CHRYSAANTHEMUMS, Per 1000,	Per 100
\$25.00, many choice varieties.....	\$3.00
GERANIUMS, 10 to 20 splendid sorts.....	3.00
ROSES, all the best standard vars.,	4.00
my selection.....	4.00
VERBENAS, in good varieties.....	2.50
ALYSSUM, dbl. white, nice young pils	3.00
CANNAS, in six splendid vars.....	3.00
DOUBLE WHITE FEVERFEW, strong	
2 inch, ready to shift.....	3.00
HELIOTROPE, Garfield (best purple)	
2 1/2-inch.....	3.00
SALVIAS, scarlet, white, black & var	
3.00	

Address **N. S. GRIFFITH,**
JACKSON CO. INDEPENDENCE, MO.
 (Independence is well located for shipping, being
 6 miles east of Kansas City.)
 Mention American Florist.

Chrysanthemums.

20,000 nice young plants growing in flats, in the
 fine Novel, Modern and Standard kinds; all the
 colors, earliest and latest, such as October Beauty, Le
 Neige, Gloriosa, Nabel, Louisiana, White
 Bedder, Yellow Beauty, Golden Fleeca, Mrs. Geo.
 Bucklock, Elk on the beautiful, Tokio Fairy, Ada
 Spaulding, Alpheus Hardy, Minnie Wannemaker, Par
 tisan, Bride, Mrs. Jessie Barry, Horne, Reward, Mrs.
 F. Clinton, Twilight, Ivory Mrs. A. C. Burpee, Mrs. L.
 B. Bird, Snowball, Kioto, Gladiator, Diana, Fantas
 tic, Purple, Leonard, Gold, Mrs. Irving Clark, T. C.
 Price Robt. Bottomly, Elksborn, W. H. Lincoln,
 silver, Minnie Miller, L. Canning, Snow Storm, Mar
 vel, Wm. Singery, L. C. Price, Paragon, Queen Mar
 garet, and many other indispensable kinds, all
 carefully labelled and packed, for \$1.00 per 100, mixed
 without names, \$2.00 per 100.

GOLDEN BEAUTY, the best and most profit
 able of all the kinds we cultivated last year for pot
 plants or cutting, "you can get nothing better than
 that." 6 plants free with every \$5 order, 12 with
 every \$10 order, or separately for \$1 per doz., \$5 per 100.
THE SNOWFLAKE DAISY, the coming
 bloom of the cut flower trade \$1 per doz., \$5 per 100.
 10,000 Variegated Vincas from flats for planting out,
 \$1.50 per 100. 10,000 China Finks, best strains, our
 own seed flat \$2 per 100, ready for immediate ship
 ment until stock is exhausted.

J. C. GIBSON, WOODBURY, N. J.

CHRYSAANTHEMUMS.

HOLLIS' SEEDLINGS OF 1890.

Nine distinct and choice varieties. Prospective
 price winners of 1891 need them. Best
 quality and lowest price.
 35 to 50 cents each; \$3.00 for the set.
 Send for descriptive list.

GEORGE HOLLIS, South Weymouth, Mass.

Send for the List of
H. Yoshuke's New Chrysanthemums

and of his valuable collection, which contains
 almost all the largest and best Chrysa
 nthemums existing in the world.

H. YOSHUKU,

The Japanese Chrysanthemum Raiser,
 1064 22nd St. cor. Linden St., OAKLAND, CAL.

BOX WOOD

Per thousand plants.....	\$3.00
Per hundred plants.....	1.00
Geraniums, from pinch pots.....	per 100 1.00
Seedling Verbena, etc.,.....	per 100 2.50

Address orders to
HENRY S. RUPP & SONS, Shiremanstown, Pa.

Please mention the AMERICAN FLO
 RIST every time you write any of the
 advertisers on this page.

AIR-PLANTS, Decorative Size.

10 to 15 inches high, per 100, \$6.00.

ORCHID CANNA.

Per hundred, \$2.50.

BUTTERFLY ORCHID,

(Epidendrum venosum). Per 100, \$5.00.

EULALIA JAP. ZEBRINA.

Strung clumps of this elegant hardy Plume
 Grass. Per 100, \$5.00.

Send for large illustrated Catalogue.

REASONER BROS., Manatee, Fla.

ROOTED COLEUS.

GOLDEN BEDDER, VERSCHAFFELTII, HERO, FIREBRAND, J. GOODE,
VEDDO, KIRKPATRICK, GLORY OF AUTUMN, CHICAGO BEDDER,
75 cents per 100; \$6.00 per 1000.
CASH WITH ORDER. STRONG ROOTED CUTTINGS.

FUCHSIAS.

STORM KING, CARL HALT, MINNESOTA, ELM CITY, MME. VANDER-
STRASS, PURPLE PRINCE, PRES. GUNTHER, W. E. WAIT, DUCHES
OF ALBANY. Very fine plants from 2 1/4-inch pots, \$2.50 per 100.

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ROOTED COLEUS CUTTINGS.

Golden Bedder, Golden Verschaaffeltii, Crimson
Verschaaffeltii, Peter Henderson, Firebrand,
Glory of Autumn, Sunray, J. Goode,
Crimson Bedder, Sunse', Etc.

Ten strong Cuttings each, of above ten varieties,
 by Mail, One Dollar.

Twenty fine sorts, including above, five of each,
 by Mail, One Dollar.

Write! or prices on larger lots by Express. Samples of the
 20 sorts mailed for 25 cts. All cuttings strong and
 healthy, labeled, and well rooted.

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 Mention American Florist.

CLEMATIS.

Fine young plants, 2 1/2 inch. Prices on
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ASPARAGUS—CONOVER'S.
 Strong, 2 and 3 years, \$3.00 per 100.
 \$2.50 in 5,000 lots.

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H. P. ROSES, 2 yr. old, dormant.

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SMALL SHRUBS OF ALL KINDS.

Healthy stock in good condition.

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PANSIES, CALADIUMS, ETC.

Everything for Spring Planting.

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Will exchange 1000 or 2000 Marie Louise Violets in
 bud and bloom, for Rose wood for cutting, or for
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 Have also 500 *Eranthis* Havenae to exchange for
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DAHLIAS, ground roots, splendid assort
 ment of named varieties, \$6.00 per 100;
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GERANIUM, dble. and sgle. named vars.

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 3 inch pots, strong, 15 to 18 inches, \$8.00 per 100.

Send for wholesale price list and descriptive cata
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DOUBLE WHITE HOLLYHOCKS, strong, one
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The National Flower.

According to the daily newspapers, what this country needs most of all just now is a national flower.

There seems to be a wild yearning for the adoption, as distinctively American, of some member of the flower family; but the difference of opinion as to the flower to be selected for that honor is remarkably wide.

The following list of blossoms, favored by different people, shows that anything like unanimity of selection is impossible. The young man looking for a rich wife prefers the marigold.

Bill collectors favor the forget-me-not. Temperance people select the waterlily. The telephone girls think the "aloe" most appropriate.

Informers and spies like the "peach" blossom. Anglomaniacs think pennyroyal most suitable.

Oarsmen prefer the rows.

Young men who prosper through their father's prestige choose the son-flower.

Men who want to emphasize America as the country of railroads wish to adopt the carnation.

Individuals, who easily lose their heads, naturally lean to the daze rose.

Pipe manufacturers are fond of the tube rose.

Milkmen fancy the cowslip.

Prudes, the primrose.

Idlers think the dahlia a very suggestive flower.

Aged people naturally select the elder blossom.

Sage is preferred by wise men.

Golden rod seems to suit millionaires best.

The penman, whose Christian name is John, will vote for the jonquil.

Demented people will naturally favor madder.

The sheep raisers' choice is plox.

Virginia-creeper is the piccaninnies' selection.

Builders take to the wallflower.

Lovers are understood to prefer tulips; the man who has passed through the ordeal of popping the question, and the girl who has heard the question and answered it affirmatively, orange blossoms—*U'm. H. Sivilier in Smith, Gray & Co's Monthly.*

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Long's Floral Photographs.

This season we start in with the large number of 125 different subjects.

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Absolutely free from disease, from 2½ inch pots, \$5.00 per 100; \$15.00 per 1000.

AMPELOPSIS VEITCHII, 2½-in. pots, \$4.00 per 100.

CYCLAMEN BIGNATEUM, Williams' finest strain, from imported seeds, 2½-inch pots, \$6.00 per 100.

Address **J. G. Burrows,**
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CARNATIONS: Ready now; Anna Webb, Wm. Swayne, Geneva and Hinze's, at \$1.00 per 100 by mail or prepaid express. 20,000 Mrs. Fisher now in the sand, this is a strong grower, and these cuttings will not be too late to make good plants. The price is reduced on this lot to \$1.50 per 100; \$15.50 per 1000.
49- Other sorts will be noted in this ad. when ready.

COLEUS: Well Rooted Cuttings of a choice assortment, all good bedding varieties: Golden Bedder and Verschaffelti in quantity. Price, \$3.00 per 100, excepting the last two when ordered alone will be \$7.00 per 100.

Fuchsia and Verbena: These are well established plants from flats, and an extra good assortment. Price, \$1.50 per 100 for Fuchsias, and \$1.00 per 100 for Verbenas.

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My Pansies are sold up close and should be ordered at once to secure them. I have a limited quantity in good shape now, the strain is the best in the market. Price, \$15.00 per 1000; \$1.75 per 100, by express; these are too large for mail. SMILAX, is one of my Spring specialties, and I get it up in good shape for potting by transplanting it once. Send 10 cts. for sample. The price is \$5.00 per 1000; 75 cents per 100.

L. B. 338.

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CARNATIONS,

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CUTTINGS,

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And 25 other beautiful.....	1.00	8.00
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ROSES, extra fine plants, Perles, Mermet, Bride, Mme. Cusin, Mme. de Watteville, S. Den. Ami. Niphetos, Sunset, La France Cook, Gontier, Bon Silence and Sistraro. 2½-inch pots 5.00 45.00
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20 vars., new seedlings, Mammoth strain, per 100 \$3; per 1000 \$25.
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Mad. Hoste, La France \$5.00 per 100.
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NEW ROCHELLE, N. Y.
New and
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ORCHIDS
PALMS,
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Hardy
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CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.
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A FRESH CONSIGNMENT OF MEXICAN ORCHIDS

Such as *Lelia anceps* (winter bloomer), *Lelia alba*, *Cattleya citrina* (extra fine), *Epidendrum vitellinum majus*, *Odontoglossum aureum* (true), *Odontoglossum maculatum*, *Oncidium orthorhynchum*, etc., etc. at very low prices.
Write for price list.

FREDERICK MAU,
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CYCAS STEMS

5000 Pounds,

PRIME CONDITION,

All Sizes.

J. C. VAUGHAN,

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PLANTS FOR FLORISTS.

Mailed free on application.

MICHEL PLANT AND SEED CO.,

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NOW IS THE TIME TO PLANT HARDY WATER LILIES

Nelumbium Speciosum.....	each, \$1 50
" Nuttallianum.....	" 1 50
Nymphaea odorata Rosen.....	" 1 50
" Maritima Chromatella.....	" 2 00
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Strong plants, will bloom this season. The set for \$8.00 cash. *Nymphaea zanzibariensis* in var. N. Dentata and N. Devonensis, \$1.00 and \$2.00 each.

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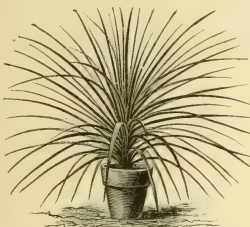


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Roman and Dutch Hyacinths,
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etc. etc.

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RHODODENDRON,
LAURUS TINUS,
LAURUS NOBILIS, etc.

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DRACÆNA INDIVISA

Selected, 3 ft. high, \$30 per 100.

Second grade, \$20 per 100.

These plants are very fine for vases and the centers of beds. Can be shipped safely by freight to any point in the U. S. Cash with order.

Fine MERMET and BRIDE ROSES, 2-inch pots, at \$35.00 per 1000.

SCHILLER & MAILANDER,

NILES CENTER, ILL.

Orchids!

PLANTS AND FLOWERS.

Cheap as Good Roses

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Tuberous Begonias

Separate colors, per 100, \$3.00; mixed, \$2.75. Double, \$4.50; mixed, \$4.00.

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ONE HUNDRED THOUSAND
Marie Louise Violet Plants,
WITHOUT DISEASE.

Ready May 15, \$4.00 per hundred.

GARLAND BROS., Desplaines, Ill.

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Six to Ten Feet Long.

Neat, Strong, Cheap.

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DAISY SNOWFLAKE

At a great reduction for the next 30 days to give every florist a chance to secure some of this profitable Daisy. Order early as the stock is going fast. Fine, strong plants by Express, \$1.00 per 100; free by Mail, \$1.00 per dozen.

FRED SCHNEIDER, Wholesale Florist,
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3,000,000 HARDY CUT FERNS

MOSS, Sphagnum and Green Sheet.

BOUQUET GREEN & FESTOONING

of all kinds always on hand. In fact anything that grows wild.

HARTFORD & NICHOLS,

18 Chapman Place, BOSTON, MASS.

A Combat of Flowers.

Last Sunday afternoon, in the Paseo de la Reforma, City of Mexico, was held one of the most remarkable of Mexican festivals—one which it would hardly be possible to celebrate on so grand a scale in any other country—the Combat of the Flowers. It was, in fact, a floral feast. The houses were festooned, the carriages and horses decorated, and every animate and inanimate object adorned with flowers in such lavish profusion that the great place seemed one enormous bed of blooming plants. The feature of the festival was the procession of carriages. Rich prizes were offered for the most handsomely decorated equipages, and the wealthiest and most prominent citizens were competitors. The floral parade moved down one side of the place and back the other, passing before a jury appointed to award the prizes. The streets outside the line of march were packed with people, and every balcony, window and house top had its quota of spectators all of whom pelted the occupants of the carriages with flowers until the air was filled with them.

The first prize, says the *Anglo-American*, was awarded to *Senor Romero Rubio*, Secretary of the Interior. The name of his wife is *Concha*, which means a shell, and over the back of the carriage was an immense sea shell canopy made of eglantines, pink and cream roses, with lance-like leaves shooting up between the flowers. All the other parts of the carriage were concealed by flowers. Mrs. Rubio and her daughters rode in this floral chariot. *Senor Cuato* was awarded a prize for a splendid cornucopia on wheels. The horn of plenty was made of sea-green grass and palms, with thousands of rare flowers woven in. Two children in pink nestled in the mouth of the cornucopia. Another prize was given to Mrs. Maria E. Lizarza, who with her children, rode in a long willow carriage with uplifted palms, immense sun flowers and batchelor-button stars set in, while the children carried white parasols trimmed with flowers.

The basket phaeton of *Guillermo Valente*, chairman of the City Park Commission, must also have been a gorgeous affair. It was decorated with Castilian roses, and snowballs flocked the beautiful gardenia pillow. The canopy columns were crusted with jetty pansies and superb pinks. Laurel leaves were used in the draping of the body of the phaeton; honeysuckles climbed all over the box and even crept over the coachman. The lance was tipped with flowers bound with blue ribbon, and some eight or ten different kinds of roses hung to the willow whip, while the horses and harness were covered with rich star-like flowers.

In addition to the hundreds of lavishly-decorated carriages, there were a number of floats, among which the one contributed by the American colony was conspicuous. It was a model of the first steamer, the *Robert Fulton*, 24 feet long, and the entire ship, starboard and larboard, fantop and keel, was buried in a mass of Mexico's fairest flowers. Boys stood on the deck and threw bouquets at the spectators.—*St. Louis Globe Democrat* April 19.

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OFFERS TO THE TRADE. Per 100
 Orchid Epidendrum venosum..... 30 00
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 Over 30 other named plants, Cacti, etc.

SPECIAL OFFER.

ROSES	Niphetos, from 4-in. pots, \$10.00
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Marchal Niel, from 4-in. pots, 10.00	
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Mme. Chas. Wood, in bud, from 4-in. pots, 10.00	
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Myosotis Blue Perfection, 20 each.	
Figs, asst., 2-3 ft., 20.00 per 100	

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Geraniums, standard sorts,	75	5 00
" accepted, 2 in.	40	4 00
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Hibiscus, in variety 4 in.	1 00	8 00
" 3 in.	75	6 00
Jay, English and variegated 2½ in.	60	4 00
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chet, M. Niel, The Bride, Souv. de	60	4 00
St. Pier and Giant 2½ in.	60	4 00
Verheue, standard sorts 2 in.	50	3 00
" Vesta, finest white, 2 in.	60	4 00
Best pink and white single Bouvardias, 2-inch,	60	4 00

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for the following pot grown Cosmos, Asters, Mignonette and Lobelia; 2,000 plants now ready. **ORDER EARLY.** Try it once and you will give nothing and may gain by doing so. Write for prices. **WATCH THE FLORIST.** Cash with order.

W. T. STEPHENSON, Petersburg, Ill.

CONCERNING Propagation of Plants.

A COMPLETE HAND-BOOK OF PROPAGATION AND POLLINATION.

THE NURSERY BOOK has been prepared with the utmost pains. It embodies the experiences of many experts. The author, Prof. L. H. Bailey, editor of the *American Gardener*, has been engaged in its preparation for many months, and has visited many nurseries and specialists, gathering material upon technical points outside of his practice. The whole volume has been read and criticized by Prof. B. M. Watson, of the Bussey Institution, one of the best propagators in this country. All available authorities have been consulted, and particular parts have been submitted to experts. The fruit matter has had the criticism of leading nurserymen, and the head propagator of probably the most important nursery in America has been freely consulted. The Orchid matter has been prepared by W. J. Bean, of the Kew Royal Gardens. The instructions in the nursery list, which gives the definite methods for each plant, have been read by at least four persons. The book is absolutely devoid of theory and speculation. It has nothing to do with plant physiology, nor with any abstract reasons of plant growth. It simply tells plainly and briefly what every one who sows a seed, makes a cutting, sets a graft, or crosses a flower wants to know. It is entirely new and original in method and matter. The nearly 100 illustrations are made especially for it, direct from nature. The book treats of all kinds of cultivated plants, fruits, vegetables, greenhouse plants, hardy herbs, ornamental trees and shrubs, forest trees.

CONTENTS.

CHAPTER I.—SEEDING. CHAPTER II.—LAYERAGE. CHAPTER III.—SEPARATION. CHAPTER IV.—STOCKS. CHAPTER V.—GRAFTAGE. Including Grafting, Budding, Inarching, etc. CHAPTER VI.—NURSERY LIST. This is the great feature of the book. It is an alphabetical list of over 2,000 varieties, with a short statement telling which of the operations described in the first five chapters are employed in propagating them. The following entries will give an idea of the method.

ACER (MAPLE). Sapindaceae. Stocks are grown from stratified seeds, which should be sown in a trench or two deep; or some species, as *A. dasycarpum*, come readily if seeds are simply sown in the open. Some cultural varieties are layered, but better plants are obtained by grafting. Varieties of native species are worked upon common or native stocks. The Japanese species are winter-worked upon imported plants. Stocks, either in sharp sand, or veneer-grafting. Maples can also be budded in summer, and they grow readily from cuttings of both ripe and new wood.

PHYLOCACTUS, PHYLOCKRUS, DISCARTIA. Cactaceae. Seeds, for the raising of new stocks grow readily. Sow in rather sandy soil, which is well drained, and the water is kept off. When the seedlings appear, remove to a light position. Cuttings from mature shoots, three to six inches long, root readily in sharp sand. Give a temperature of about 60 degrees, and apply only sufficient moisture to keep the plants from drying. If the cuttings are very juicy, they may be laid on dry sand for several days before planting.

GOOSEBERRY. Seeds, for the raising of new varieties, should be sown as soon as well cured, in loamy or sandy soil, or they may be stratified and sown together with the sand in the spring. Cuttings six to eight inches long, root readily in sharp sand, inserted two-thirds their length, usually grow readily, especially if taken in August or September, and stored during winter. Stronger plants are usually obtained by layers, and the English varieties are nearly always raised this way. Non-stem layering is usually employed, the English varieties being allowed to remain in layers. The American varieties of old (Fig. 27), layered plants are usually set in nursery rows for a year after removal from the stocks. Grafting during summer is sometimes practiced for new or rare varieties.

CHAPTER VII.—POLLINATION.

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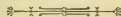
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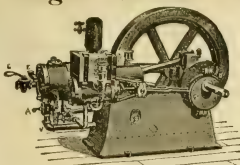
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Vol. VI.

CHICAGO AND NEW YORK, MAY 7, 1891.

No. 153.

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LATE ADVICES from Holland indicate considerably higher prices for Narcissus Van Sion. Mammoth yellow crocus have been injured by the severe winter. Hyacinths in general are slightly higher in price. Some tulips are scarce and some varieties more plenty than last year averaging probably about the same.

WHEN WRITING advertisers please say that you saw the adv. in the AMERICAN FLORIST.

Floriculture in the U. S.

Superintendent Porter, of the census bureau, has issued a bulletin on the subject of floriculture in the United States. The material from which the statistics are compiled was obtained direct from florists upon schedules specially prepared for that purpose and by personal visits (of special agents to florists' establishments in all parts of the country.

It will be noted that while floriculture has been carried on as a business in this country for upward of one hundred years it is only within the past twenty-five years that it has assumed large proportions. Out of a total of 4,659 establishments 2,795 were started between 1870 and 1890, and of these 1,797 between 1880 and 1890. There are 312 commercial establishments owned and managed by women. These 4,659 establishments had in use in the census year 38,823,247 square feet of glass, covering a space of more than 891 acres of ground. The establishments, including fixtures and heating apparatus, were valued at \$38,355,722.43; tools and implements, \$1,587,693.93, and gave employment to 16,847 men and 1,958 women, who earned in the year \$8,483,657. Fuel for heating cost \$1,160,152.66. The products for the year were 49,056,253 rose bushes, 38,380,872 hardy plants and shrubs, while all other plants amounted to 152,835,292, reaching a total value of \$12,036,477.76 for plants. Cut flowers brought an additional income of \$14,175,328.01.

From the tabulations in the bulletin it appears that the largest number of square feet of glass in one establishment in the United States is in the District of Columbia; the oldest establishment was started in New York; the largest number of roses propagated were, respectively, in Pennsylvania, Illinois and Ohio; the largest number of hardy plants propagated were, respectively, in Illinois, New York and Kansas; the largest total value of plant sales were, respectively, in New York, Pennsylvania and California, and the largest total value of cut flower sales were, respectively, in New York, Illinois and Pennsylvania.

In addition to the Society of American Florists 965 state and local floral societies and clubs and 358 horticultural societies, aided by the agricultural and horticultural press, helped to develop this industry to its present large proportions.

After inquiry of every florist in the United States, the report indicates that there was but one commercial florist in the year 1800, and only three establishments stated between 1810 and 1820: 8 more were started in the next decade, 25 in the next, followed by 45 between 1840 and 1850, 96 between 1850 and 1860, 313 between 1860 and 1870, 998 between 1870 and 1880, and 1,797 between 1880

and 1890. The reports show that 80 per cent of the whole business has been developed during the past 25 years.

Floral establishments were found in every state and territory except Idaho, Nevada, Indian Territory and Oklahoma.

In number of florists' establishments New York leads the list with 793, Pennsylvania stands second with 544, Massachusetts third with 407, Ohio fourth with 393, New Jersey fifth with 366, Illinois sixth with 330, Michigan seventh with 167, California eighth with 150, Missouri ninth with 141, Connecticut tenth with 120, Indiana eleventh with 107, Wisconsin twelfth with 105, Maryland and Rhode Island have each 102 and the other states less than 100.

In amount of glass surface New York again leads with 6,947,298 square feet, Pennsylvania second with 6,066,144, New Jersey third with 3,703,554, Illinois fourth with 3,290,750, Ohio with 2,785,192, Massachusetts sixth with 2,717,946, Michigan seventh with 1,293,442, Missouri eighth with 1,240,095, Connecticut ninth with 1,060,920, Kentucky tenth with 1,163,241 (81 establishments), Indiana eleventh with 899,549, Maryland twelfth with 872,304, Louisiana thirteenth with 742,050, District of Columbia fourteenth with 649,310, California fifteenth with 610,622.

The following table shows the money invested in the business and the annual sales of plants and cut flowers in the ten leading states:

	Total value of estab-lishments.	Total plant and cut flower sales.
New York	\$9,254,373.03	\$5,844,388.57
Pennsylvania	5,641,513.92	3,663,989.76
New Jersey	3,666,518.46	2,186,387.14
Illinois	2,945,442.50	2,494,519.00
Massachusetts	2,663,587.08	1,630,462.35
Ohio	2,590,228.56	1,637,337.42
Michigan	1,165,484.65	340,305.12
Missouri	1,078,882.65	870,491.42
Connecticut	986,655.60	431,111.90
Kentucky	918,960.39	613,407.33

New York City Union Square Flower Market.

If ever there was a step in the right direction this is one. To the Park commissioners, to Aldermen Morris and Dowling, to Judge F. P. Daly and those growers who are desirous of spreading broadcast the love for flowers, are the people of New York indebted for this great, good and glorious privilege.

As a matter of course this good work has met with more or less opposition, but the opposition came only from those who were afraid to trust themselves in open competition. The idea of opposing such a good work is preposterous and absurd.

We must have in New York a public flower market. The people demand it, and the store keepers need not fear for

their business if they only keep up to the times. Some people want to control the universe. When it comes to dictating how many butchers' shops and how many dry goods houses there are to be in each city it comes pretty near anarchy.

The Union Square Flower Market is a success in spite of its crudity and rather large proportion of poor plants. On Saturday morning, April 24, there were in line 47 wagons. This was the first time the market was kept open until 8 o'clock. The retail buyers between 7 and 8 o'clock cleaned out everything and it is safe to say that there was not \$50 worth left unsold.

There will be more plants sold from this market than from all the other sources in New York. It is only the beginning of what New York ought to have had 25 years ago. The store keepers need not fear the market will hurt them; it will not; they will sell more plants than ever, as the love and demand for plants grow.

I am for the greatest good for the greatest number, and am sorry, very sorry, to disagree with your Young correspondents.

JOHN THORPE.

Notes on Some of This Year's Seed Novelties.

BY WM. FALCONER.

CHINA ASTERS.—Several "new" ones are offered, but we have got to grow and test them before we can say much about them. Among them are Snowball, like a "Liliput Dahlia;" Jewell, "the finest of the peonia flowered section;" Zulu King, "of faultless globular shape and black purple color," and a "pure yellow" Victoria aster called "Aureolin Beauty." There is a large run on Comet asters and they deserve it; but I can not get up the enthusiasm for Triumph asters that some folks show.

AUBRIETIA LEICHTLINI still holds a front rank. It is a hardy perennial of dense, low, carpet-like growth and bears red-purple flowers in great abundance in April and May. It is the reddest of all the aubrietias. And it is easily raised from seed and seedlings a year old make mats a foot wide and bloom profusely.

ASPARAGUS PLUMOSUS NANUS.—Although not a new plant it is a good seed novelty. We have usually propagated it by division or layers and with how much quickness its continued high price bears testimony. If seeds were plentiful the "fern" asparagus would soon be plentiful enough too. By the way, why is it that my "nanus" won't stay nanus?

AQUILEGIA.—There are several of these, but nothing new. Grigor's glandulosa and Stuart's hybrid are both lovely, but not sturdy enough. In the way of columbines (aquilegias) let me advise you get Sibirica, cerulea and its white variety, Olmepica, formosa, truncata and chrysantha, which are the cream of the lot. We have also Munstead white, a handsome short-spurred variety. In the great hybrid race it isn't so much a matter of getting hybrids as it is of preventing hybridization, as no genus mixes more readily than aquilegia. But a good red is hard to fix. Some 12 years ago we had "Bebbs' Hybrid," an exceedingly large rose-purple variety that was strikingly fine. Have any one now got it pure?

St. Bridg's ANEMONES are still offered as novelties. They are easily raised from seed, easily grown and bloom the following spring, and they are very pretty and showy. Although hardy here they flourish better when wintered in a cold frame.

ARNERIA CORNUATA, an annual species of much promise, was a last year's novelty. It grew well, was a little rough perhaps and bloomed splendidly with us last summer. But we didn't save any seeds of it. And although I find it advertised in several catalogues this year I have been unable to get any seed of it.

ARNERIA MACROTHYRSA is a new perennial species from Asia Minor and offered in limited quantity this year. It is said to be a robust species, more than a foot high and having erect trusses of handsome yellow flowers, and it is suggested that probably these are spotted with black as is mostly characteristic of the genus.

AGERATUM CELESTIAL,—A dwarf, compact variety, about six inches high with large umbels of light blue flowers. Ageratums, tall and dwarf, grow very readily from seed, but I have found in the case of the dwarf especially, that the seedlings come somewhat uneven, and in order to have thoroughly reliable stock it is well to select the types one like from among the seedlings and propagate them by cuttings or division.

ANCHUSA CAPENSIS is included in a list of novelties. This is a step in the right direction, for although it is an old plant it isn't generally grown, and it is one of the loveliest of garden plants. I raise it as a pot plant for March or later blooming, also as a summer annual, and it is so easy to manage and generous and its flowers are of such a deep blue tint and forget-me-not make up that it is quite a favorite. And there is not a whiff of the coarseness of A. Italica about it.

BERTERIA MUTILIS, a herbaceous, perennial allysum, with spikes of white flowers. Very easily gotten up from seed.

BEGONIAS.—The tuberous-rooted section of begonias is continually affording us new varieties from seed, hence like cannas or chrysanthemums it may be styled a perennial novelty. But particular stress is given to B. Credneri, which is a hybrid between B. Scharfiana and B. metallica. The habit is like Scharfiana and the color and form of the leaves like metallica, the flowers excel those of both parents. "Faust," a new tuberous-rooted variety, the best red in existence, shaded with black.

CARNATIONS.—I am not a pessimist, at the same time I can not join in this continuous hurrah for Grenadin or Marguerite carnations. Both are good and beautiful in their place, and most all that is claimed for them is true enough. Let us take the Marguerite for instance. It comes up from seeds very freely, and the seedlings are of compact habit and will bloom the first year, and bloom freely and for a long time, and show a large proportion of double flowers. But the flowers are somewhat small, of rather flimsy make up, and although they display a great range of color much of it is poor. And the plants in our grounds proved no harder than other carnations.

CATHARTIA VILLOSA, a poppywort from Sikkim, perennial, best treated as a biennial, yellow flowered and pretty, but not quite hardy.

CHRYSANTHEMUM CARINATUM FLORE PLENO.—A new double-flowering race of hardy annuals, but I shall have to bloom them before I can say much more about them than that the seed germinates well and the plants grow freely. If I mistake not C. coronarium and C. carinatum have got considerably mixed up in some lists. In either case, however, I can not

say that I consider the plants indispensable to our gardens. The plants grow and bloom well enough, but no one seems to want to cut the flowers and after midsummer the blooms get small.

CORONOPSIS GRANDIFLORA is a herbaceous perennial of neat habit and very free blooming; in short, it may be described as the finest form of C. lanceolata, and it is as hardy.

CALENDULA ORANGE KING is said to have the largest and most perfect flowers and the deepest colored of any of the pot marigolds. It grows readily from seed.

CALENDULA SUFFRUTICOSA, "a dwarf variety, grows about 9 inches in height and has bright yellow single flowers."

CANNAS, CROZY'S.—The widespread popularity of these low-growing handsomely flowered cannas gives us encouragement to raising young plants of them from seed in order to get new varieties. Most of the seedlings will bloom the first year. Seeds sown out of doors in May are more apt to vegetate than those sown inside in February or March.

CANNA FLACCIDA "The King."—Grows "only about 16 inches high * * * and has enormous flowers from 4 to 5 inches across." Sulphur yellow color. The trouble with C. flaccida is that its flowers are flimsy.

CARMAN'S HYBRID CASTOR BEANS.—The editor of the *Rural New Yorker* at his home in New Jersey had a large bed of different sorts of ricinus or castor beans, and like corn or cucumbers growing together they got intermixed. The seedlings raised from these plants may or may not resemble their parents. With castor or other sub-tropical plants I prefer to know exactly before planting how the plants will turn out, for if I don't my planting is only guesswork and the effect probably a failure.

DELPHINIUM CARDINALE, one of the scarlet larkspurs of California, is boomed a good deal. It is easily gotten up from seed and very beautiful when in bloom, but hard to manage after the first year and in fact not very hardy. It comes from the mountains of S. California. Another scarlet-flowered Californian species is D. nudicaule. Both require much the same treatment and both have somewhat tuberous roots. Neither are new, I have grown them both for a dozen years.

DODECATELON CLEVELANDII was sent out last year with a great flourish, but where is it to-day? Now this is one of the plants that does not prove satisfactory as a seed novelty. The plant itself is a beautiful perennial well worth growing, and the seeds are good and will grow, but it is a long, painstaking and tedious job to get up seedlings to blooming-plant size, in fact, the game is hardly worth the candle.

THE "SCARLET" MEXICAN THISTLE (*Erythrolena conspicua*) is what I call a one-season novelty. It is a biennial and it isn't hardy and it is hardly worth bothering with to winter indoors; at the same time it is distinct and showy and will be pleasing as well as interesting to many.

GIANT ESCHSCHOLTZIA is an extra large flowered form of E. Californica. A very beautiful and easily gotten up race of plants, and the flowers are excellent for cutting, notwithstanding their poppyhood. In California they are perennials,



TABLE CENTER PIECE

here on account of climatic conditions they are best treated as annuals.

GLOXINIA "EMPEROR FREDERICK" is a new large flowered variety with a fiery scarlet throat and white edge. Last year's novelty Defiance bloomed well with us and had vivid crimson-scarlet flowers of middle size. While it would be well enough to list distinct types of gloxinias as novelties, I am inclined to think that singling out these individual varieties as novelties is a little too far-fetched.

Center Piece.

The illustration shows a center piece that we have used many times in the past year, but it is capable of so many good combinations that we do not tire of it.

It consists of a cut glass bowl, mirror and wreath. The one shown was filled with "Watteville" roses and maiden hair ferns. We know of no more effective way of using a few flowers; it is far ahead of any plateau with the same number of flowers, and gives very many more opportunities for displaying taste, not only in the combination of colors, but in the graceful arrangement of the flowers used.

For a small round or square table it is quite sufficient. If a long table, we often use wreaths that harmonize, on each end, surrounding the base of the candelabr..

If it is desirable to make it still more elaborate or expensive, clusters for the ladies may be added.

The following are some of the combinations that we would suggest, many of which we have used:

Pink carnations with natural foliage, no other green. That includes all the pieces, viz:—The cluster for the bowl, wreaths and clusters for the ladies and the button-hole bouquets for the gentlemen, all having natural foliage arranged with them. If we use tulips for the bowls and wreaths, we should use a smaller flower for the ladies' clusters, possibly valley, but not tulips.

Make the wreaths of a variety of ferns, with a few cypripediums mixed through, and the same for the bowl and the effect is excellent. In this case a little color for the ladies' cluster is advisable, for instance, one or three cattleyas, or several hybrid roses tied with ribbon to match.

White and green decorations have been much in favor, and are easily carried out with this style of decoration.

Still another pretty effect can be produced by using violets for the wreaths and ladies' clusters, with sprays of acacia and several daffodils in the bowl.

We have used daisies in all the pieces with good effect. And *Narcissus poeticus* properly and profusely used is charming. In this case we should make the wreaths

rather flat, that is wiring all the flowers so that they may stand erect, showing the whole face of the flowers. In the bowl we should let them have their own sweet will, using lots of their own foliage and arranging carelessly. Mignonette, ferns and pink roses are always pretty together. Boz.

Floral Arrangements at New York Show.

Regarding the arrangements of which we gave illustrations on pages 718 and 719 of last week's issue, Mr. John Thorpe writes as follows:

"Dinner table decoration for 12 persons: The first premium was awarded to Mr. G. Stumm. There was a great deal too much material on the table. The flowers, mostly pink, were of first quality and elegantly arranged, but in the center the flowers were high enough to hide your vis-a-vis. When will there be a decoration to admire in these public competitions? Every one of the table decorations had this objectionable feature. Too many flowers and badly arranged so far as interfering with the line of sight.

Mr. LeMoult's second prize table was a poem in green and bronze living plants. The composition as a bank of plants could not be surpassed, but like the first premium arrangement it was impossible to see your friend opposite without getting

on your feet. If the arrangement had not had these objections it would have won.

"All the tables (5) were equipped with plate, glass and crockery and I am satisfied that there was too much of this on every table.

"A. McConnell's first prize basket was a splendid piece of work. The flowers were excellent, the taste displayed could not have been better. It was the admiration of all. The flowers used were Magna Charta, Luizet and La France roses, lily of the valley, a few orchids, maiden hair ferns and smilax.

"Stumpff's first prize vase of 100 hybrids: These 100 hybrids were truly superb. The variety was Baroness Rothschild, the blooms arranged in a vase fully four feet high, the vase being of an olive green tint and of elegant shape. Partly covered with smilax and ribbons it was a very beautiful piece of work. The illustration does not do justice to the effectiveness of this fine display."

New York.

Business has improved since last report. Although roses continue very plentiful the increased demand has made the average prices better.

Lilac, daffodils and other outdoor flowers are being received in large quantities from the south.

There is a limited quantity of orchids coming in at present, but Mr. L. Forstermann, of Newtown, furnished us with a treat in this line by sending in some of the finest Cattleya Trianae that were ever seen here.

Mr. John H. Taylor has offered a silver cup for the best bouquet of admiral Cusin roses to be shown by the grower at the great exhibition to be held at the Madison Square Garden November 2 to 8. In addition to this Mr. Taylor has made a large entry of chrysanthemums.

It is to be hoped that the Madison Square Garden people will make suitable arrangements with the Florists' Club here so that as a body they will endeavor to make the show a success. They have clearly illustrated and shown what they can do by making their recent exhibition one of the finest ever seen in this country. I have no doubt but what these arrangements will be made and by one more united effort by the club the people of this city will be enabled to have another grand show.

Mr. E. Low, of High Low & Co., of London, who has been so very ill at the Hoffman House, has been advised by his physicians to return immediately to England. Mr. John Thorpe will complete Mr. Low's route, starting west last Thursday for this purpose. Mr. Thorpe will visit during this trip Pittsburg, Cincinnati, Cleveland, St. Louis, Chicago, Buffalo, Albany, four other and other large cities. Messrs. Low & Co. are to be congratulated on securing the services of Mr. Thorpe, as it is believed there are but few better posted on choice orchids and palms, or having a more general knowledge of flowers than he.

There have been several important decorations during the week, one of the principal events being the banquet given under the auspices of the American Protective League. The decorations were in charge of Mr. W. S. Lee, of Ellis Co., and were very extensive. The dinner being American in all its details the principal flower used was the American Beauty. Large quantities of this beautiful rose were placed in vases on all the tables and hung in bunches from the pillars and

balconies. Upon each table also were plaques of growing spring flowers such as tulips, white narcissus, pansies, lily of the valley, etc. The front of the balcony and walls of the room were festooned with ropes of smilax, asparagus and laurel.

There were several van loads of palms used in the hall, some very fine specimens coming from the extensive nurseries of James Weir & Sons, Bay Ridge, N. Y.

At the wedding of Miss Van Tassel Mr. Alex Warendorf made one of the finest decorations ever seen here. The ceilings were festooned with smilax and asparagus with roses run in between. In each room Mr. Warendorf had a distinct feature and had a fine opportunity of showing his ability in this line. The canopy was made of Bride roses and lily of the valley edged with Adiantum Farleyense. The bridal bouquet was made of cattleyas and lily of the valley.

Mr. C. W. Mathesen had the decoration for the wedding of Miss Rainsford. The house was beautifully decorated with palms, azaleas, etc. The canopy for this occasion was made entirely of Madam Cusin roses. Upon the mantels were placed solid beds of American Beauty roses. The stairway was decorated with smilax interwoven with Jack roses, in fact Mr. Mathesen had turned the house into a lovely conservatory. He had also the church decoration in which he used large quantities of apple blossoms and lilac.

Mr. Herman Kuhn at the wedding of Miss Martha Benedict displayed his usual good taste. The mantels were banked with Baroness Rothschild roses and the chandeliers of flowers had a background of rare palms; ropings of lily of the valley and asparagus were arched up to a marriage bell made entirely of Bride roses.

In giving an account in a previous issue of the decoration at the wedding of Miss Dillingham I should have mentioned that the order was executed by Mr. Kuhn.

Mr. W. H. Ellis sailed for Europe on the Germanic Thursday morning for a brief vacation.

Miss Anna Hauptner, of the Alpine Floral Co., has not yet recovered from the poisoning on her face and hands received as she thinks from handling plants at Easter.

The florist trade on Broadway from 20th to 33rd street is very well represented, there being 13 stores there now with the prospect of the addition of one or two more before fall. JOHN YOUNG.

Echoes from the New York Show.

The John May Prize—original design in roses—canoe and lamp. Owing to some misunderstanding among the exhibitors a very unfortunate circumstance occurred. In the original schedule the time set for awarding this prize was 11 a. m., but during the show some exhibitors were informed that the awards would be made until 2 p. m. Thursday. Result: Those who were on 11:30 time had a chance to win, and those on 2:30 time had no chance to win, because the premium was awarded at 11:30. This caused some disgruntlement and as a matter of course sundry unpleasant remarks. The canoe won because it was the first time. The lamp would certainly have won had it been lighted at 11:30 instead of waiting for the p. m.

The canoe was a very beautiful piece of workmanship, hardly original though. The Baroness Rothschild, Merville de Lyon and Mabel Morrissons, of which

it was composed, could not be beat—they were A-1. It was entered by Mr. J. W. Seelen and won.

The lamp standing five feet high, shown by Mr. J. B. Nugent, Jr., and to whom a special first was awarded, called forth the admiration of everybody. It certainly was a masterpiece. The harmony and general effect, the quality of the flowers and the good workmanship was patent in every detail. No finer Jacqnet than those which formed the greatest number were ever seen in New York. The Magnas, the Bonness and her compatriots were equally fine. Incandescent electric lights added so much to the realism that it suggested a new field for electric lights in flower combinations.

In the competition for the Jansen prize at the exhibition of the New York Florists' Club A. Warendorf received first.

Out of the dozen baskets in competition for the prize, this, the winner, was the worst of the lot. It was a rose basket of few flowers and the quality was not A. 1. Jacqnet and Prince Rohans were the only varieties. The flowers were soft and going rapidly when the premium was awarded. But the basket had no ribbons on and there the die was cast.

Now I am not opposed to ribbons associated with flowers in their proper place, but really some flower pieces of late have looked more as though they came from a millinery store than a florist's, and the rebuke may have a good result. In fact results were evident during the competitions of Thursday, Friday and Saturday of the show. Not a ribbon was in sight. What did this mean? That competitors felt that no ribbons was the correct thing?

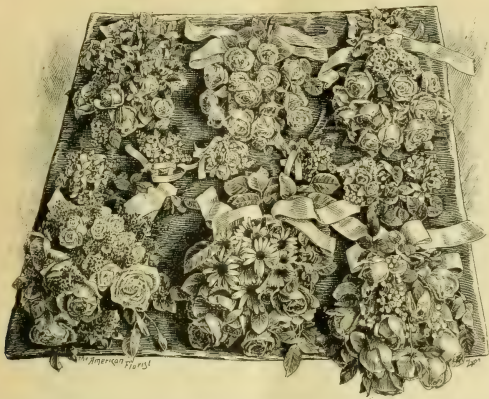
The second prize basket shown by Mr. A. Merritt was a basket of orchids, a lovely combination. The third was from A. McConnell, of superb La France roses. Both these baskets were profuse in ribbons.

A man lost a \$5 bet on these baskets. The bet was that the second basket would be first and the third second and the first distanced. It proved that light weights are often dangerous. JOHN THORPE.

Baltimore.

Small, smaller, smallest, if coupled with show, exhibits and patronage will exactly describe our spring show. The only thing really on a grand scale about it was the hydrangeas exhibited by Mr. Conrad Dies, which were really superb and in great quantity, fully 150 plants of uniformly good size and condition being shown, very many having two dozen heads of bloom, each a foot in diameter; all were well furnished with foliage of the largest size and averaged four feet in height. Cacti were exhibited in great variety by Mr. Ed. Herrmann. Mr. Bauer had a large and very varied assortment of bedding plants. Branteridge & Co. had a tastefully arranged exhibit of orchids. There were three entries for table decoration, two of them, those taking first and second by the way, being on benches three feet wide; the other being somewhat more like an ordinary dining table failed, not because of not doing enough, but because he did too much, for a really tasteful decoration of adiantum sprays and buds was made to appear heavy by two great masses of violets at each end of a central group of roses and lilies.

The attendance was, notwithstanding the delightful weather, phenomenally small, being but little more than enough to pay hall rent. Cause why? First,



FIRST PRIZE CORSAGE BOUQUETS AND BOUTONNIERES AT EXHIBITION OF THE
NEW YORK FLORISTS CLUB

Mr. John Thorpe was in the city Tuesday and Wednesday of this week.

Boston.

The supply of roses and carnations in the cut flower market has decreased greatly and prices have improved accordingly. The street peddlers who for the past fortnight have been revelling in loads of fancy roses now find it necessary to turn their attention to daffodils, May flowers and pansies instead. Outdoor stock is very plentiful at prices which can hardly pay for picking and packing.

The much talked of florists' exchange is finally under way, but as an individual enterprise only. The plan is somewhat novel and it will require time to prove whether it will be a success or not. If it accomplishes anything toward abolishing the primitive practice of peddling their flowers by hand in the morning as is the custom with most of the growers about Boston, certainly no one with the best interests of the trade at heart can object. The scheme includes plants as well as cut flowers. In the meantime some of the big "bazaar shops" are making great raid on the seed and plant industries by advertising in big letters flower seeds at 10 cents per dozen papers, roses at 12½ cents each, tuberose bulbs at 3 cents per dozen and are following suit to certain seed houses in booming the glories of those two undesirable weeds, *Ipomœa pandurata* and the "Cinnamon Vine." W. J. S.

Philadelphia.

Bedding plants are going lively and the men making a specialty of this line are up to their eyes in business.

The wholesale price for this class of plants is as follows: Geraniums \$8 per 100 for 4-inch; in fact nearly all bedding plants in 4-inch pots are sold for the same price; 6-inch pot geraniums, fuchsias etc. bring from \$2 to \$3 a dozen; 2½ and 3-inch stuff sells for from \$4 to \$5 a 100; good root roses, 6 and 7-inch pots, own roots, from \$4 to \$6 a dozen, except hybrids, which bring 60 cents to \$1 each.

Robert Craig has a fine lot of gloxinias and tuberous rooted begonias. He says they are selling as fast as he can get them in flower. His stock of young roses is very fine, the plants being clean and healthy.

Karl Miller's pelargonium house is a show; some specimens are as full of bloom as an azalea.

Edwin Lonsdale has sold his rare orchid. It was picked up by an English collector. Our genial friend has been housed for the past week with a sprained ankle. We are glad to say, however, that he is about and himself again.

Mr. C. H. Ensinger has resigned his store on 13th street and will give his entire attention to his country place.

S.

Corsage Bouquets and Boutonnieres.

The illustration shows the six corsage bouquets and six boutonnières which won for K. A. Merritt the Horan prize, a silver cup, at the recent exhibition of the New York Florists' Club.

The competition was very strong in this class and without doubt the best won.

The illustration does not give the best impression of this fine exhibition; the exhibit was greatly admired and it was one of the awards that met with universal approval. Critics ventured to say, however, that there was a superfluity of ribbons.

insufficient advertising, the committee in charge having neglected the ordinary and usual thing even of putting a conspicuous sign in front of the building in which the show was held, and nothing having been done except to place a two-inch "ad" in the leading dailies; second, an unsatisfactory place, at least to many growers; the concert hall of the Academy of Music is a prettily frescoed and lofty room, but it is up quite a long stairway, and anything that is going on there has to compete with the attractions of the main auditorium; third, perhaps the really serious and insurmountable obstacle in the way of most of our spring shows, the shortness of the time between winter and summer which crowds a great amount of work into a few weeks, makes the grower so exceedingly busy laying up bread and butter that he has neither time nor inclination to pay much attention to getting up show stuff and taking it to an exhibition, and even has its effect upon those who patronize the shows; the ladies with their summer wardrobes to prepare, the gentlemen with the struggle for spring trade in their minds, have little desire for a quiet hour with the petted darlings of dame Nature.

As at the chrysanthemum show our friends and neighbors from Washington were over and judged the exhibits in a very impartial and satisfactory manner, and the pleasure of listening to their friendly criticisms at the dinner that was given, in a measure relieved the annoyance of the silence and loneliness that vexed one in the exhibition hall. MACK.

Chicago.

The market shows signs of improvement this week. Roses are still very plentiful, but the cut is considerably less. Prices of all varieties, however, with few exceptions remain about the same as last week. Jacys are decidedly scarce, and so are Beauties and hybrids.

Outdoor grown bulbous stock pours in in great quantity, tulips being particularly plentiful. Unusually good stock is

shown this year by a few growers, notably by Mr. Chas. Northrup, of La Grange. Mr. N. is noted for forcing some of the best tulips ever seen in this market, and his stock grown in the open ground this year is certainly very fine. Some varieties which deserve special mention are: Crowne d'Or, Rosine, Prince de Austria, Royal Silver Standard, La Citadelle and Duchess of Parma; the latter in particular are superb. A number of growers when shown flowers doubted that it was this variety. The whole habit of this sort seemed to have changed. Instead of a weak stem as seen when forced under glass, it showed up bold and upright with fine heavy stem and a size of flower certainly remarkable. There is a violent contrast between this stock and much of the stuff on the market, evidently grown in that happy "go as you please" fashion for which many of our gardeners are noted.

Daisies, single and double, are plentiful and selling at low prices.

R. J. Donovan is picking some very fine violets of a dark blue, double Russian variety, outdoor grown which bring from 75 cents to \$1 per 100. Mr. Donovan grows this violet under the shade of some oak trees on his place at Highridge. The plants are very vigorous and perfectly hardy. They bring but one crop a year, generally lasting from ten to fourteen days.

Valley from the open ground is just making its appearance.

Messrs. James and William Currie, of Milwaukee, were in the city Monday.

The next meeting of the Florist Club promises to be mighty interesting. In addition to the discussion upon the judging of floral arrangements there will probably now be a discussion on the why of the whiching regarding the appointment of chief of the Hort. Dept. of the W. F.

One of the large dry goods stores has added a floral department and roses can now be purchased at the regulation dry goods store prices, viz.: 39, 49 and 59 cents a dozen.

It is too bad that there are not second premiums in all these competitions. In this case, if there had been, Ellis & Co. would have been an easy second.

JOHN THORPE.

OBITUARY.

HENRY NANZ, SR., the pioneer florist and nurseryman of Louisville, Ky., died May 1.

Mr. Nanz was born in Stuttgart, Germany, in 1819, and learned his trade in the famous nurseries and gardens of that place. He came to this country in 1847, landing at New Orleans. He first tried his fortunes in Texas, but sickness compelled him to find a better climate. He came north with the United States soldiers who were returning from service in Mexico. When he landed in Jeffersonville in 1848 he was penniless. He first found employment at the famous Spring Garden, and after the collapse of that concern became gardener to the celebrated Ward family. Their conservatory soon showed the effects of his skill. He was in charge of it at the time when a mob endeavored to destroy the Ward property in 1853 and valiantly, but vainly, endeavored to save his floral treasures.

By diligent economy and persevering activity he was enabled to lay the foundation for his now famous business, and bought an acre of land on Third street, between Breckinridge and Kentucky, then considered away out of town. The rapidly growing city and the ever increasing demand for his goods compelled Mr. Nanz to look about for more extended quarters, and he finally settled at St. Matthew's station (Gilman's Point, as it was formerly known), and there he purchased thirty acres of land which he proceeded to lay out, and which now is the nursery of the firm.

The distinguishing characteristics of Mr. Nanz's life were unvarying honesty and integrity in all his transactions, and his untiring activity, which seemed to have no limit, though when he had attained his seventieth year he retired from the active conduct of his business and transferred his interests to his son, Harry Nanz, and his son-in-law, Carl Neuner. During the course of his life he planted thousands of trees in all parts of the city, in the streets and in the yards of private residences, which will remain as so many beautiful monuments to his memory.

He was laid to rest in Cave Hill Cemetery, the funeral being very largely attended.

Nephrolepis.

The nephrolepis, or "Sword Ferns" as they are sometimes called, comprise a very handsome group and also a very useful one, their long, graceful fronds mingling very happily with those of different habit.

The members of this family are of easy growth and also easy to multiply, as some of the species may be readily procured from spores, while all may be readily increased by planting out on a bench in the fern house in order to allow the rapidly growing rhizomes or creeping stems to develop. In fact some species may be planted outdoors in a shaded place during the summer with good results, both *N. exaltata* and *N. pectinata* doing well under such treatment, and the plants so grown make admirable specimens for decorative work during the following winter.

As noted above, these plants make long, wiry rhizomes which travel either

on or just beneath the surface of the soil, and on these at short intervals are produced the young plants.

Regarding temperature during the winter it may be stated that any of the nephrolepis may be grown in a house that ranges from 55° to 60°, while *N. exaltata* and *N. cordifolia* (or *N. tuberosa*) will thrive in a much lower temperature.

In cultivation there is one very essential point to be remembered, and that is never to allow any of the nephrolepis to get very dry, as the pinnae are articulated, or jointed to the midrib, and the consequence is that if allowed to become very dry they will drop much of their pinnae.

Among the finest species should be included *N. davallioides* furbans, a very strong grower and an elegant exhibition plant, or may be used with good effect in a pedestal by placing the specimen on a pedestal so that its fountain-like growth of long, graceful fronds may be displayed to advantage.

The fronds of *N. davallioides* furbans are light green and glossy and from three to five feet in length, the tip of each pinna being divided into from two to five segments or forks, this giving the fronds a crested appearance.

In order that this fern should be in condition for decorating it should be grown in a moderately light house and well ventilated, as by this means the fronds will be hard and of good substance.

Another excellent species, and one of the hardestiest is *N. exaltata*, also a strong grower, and produces long arching pinnae fronds of dark green and attaining a length of three to four feet.

This is a well known species and makes a first rate window fern, or may be used as a vase plant during the summer, providing it is not placed in the full sun, and in addition to these advantages the fronds stand well when cut, so taking all things into consideration this is one of the most useful species in the genus.

N. pectinata is of much more dwarf habit than the preceding and consequently makes a more useful small plant for table ferneries and other work of similar character.

It has slender fronds from one to two feet long and closely clothed with dark green pinnae, and as it is evergreen (as are most of this genus) and grows freely during the winter it has already proved its value as a florist's fern.

N. cordifolia, better known as *N. tuberosa* from its habit of forming small tubers on its rhizomes, is still another good species, being easy to grow and nearly as hardy as *N. exaltata*, and to which it bears some resemblance. It spreads rapidly and in common with most of the nephrolepis makes a good basket plant. It bears long stout fronds of light green and is a useful one for cutting from for large work.

N. Duffii is quite a dwarf grower and also very pretty when well grown. It is of tufted habit, the fronds being comparatively upright and dark green in color, more or less clothed with brown tomentum and the tips of the fronds several times forked or divided. This species makes a very pretty plant in either 3 or 4-inch pot and presents a very distinct appearance.

One of the latest additions to this genus is found under the somewhat unwieldy cognomen of *N. rufescens* tripinnatifida and was introduced about four or five years ago. It is unquestionably one of the loveliest of the genus, but unfortunately is nearly deciduous in the winter, this fact of course detracting from its

value for florists' use, though in a well grown specimen it is remarkably attractive during the summer and fall.

N. rufescens tripinnatifida bears large plum-like fronds that are comparatively erect in habit, dark green in color and the entire plant is more or less covered with reddish brown tomentum, the pinnae being much more divided so that they have the appearance of being crested.

There are several others catalogued in addition to the species and varieties briefly referred to above, but these comprise the cream of the genus and give variety enough for all ordinary purposes.

W. H. TAPLIN.

Long Island Notes.

BY WM. FALCONER.

CALCEOLARIAS AS HOUSE PLANTS.—The herbaceous or spotted calceolarias when in bloom are capital window plants and they keep in flower and in good health in the window for weeks, indeed, fully as long as they do in the greenhouse. But of course small or medium sized plants are better for window work than are large ones, and the window in which they are placed should not be a sunny one. Always be careful not to wet the flowers of calceolarias. Mr. Gus Bennett, of Flatbush, L. I., and who had the handsome plants at the recent New York show, tells me he uses medium sized plants for mantel decoration and not only finds them well adapted for this work but very much esteemed by the ladies.

If you grow calceolarias at all grow the finest only. Nowadays they are superb. The flowers are large, full blown and even and distinctly and beautifully marked, and among selfs we have some fine pure yellows, crimsons, browns, etc.; the striped ones that "came out" a few years ago seem to have lost favor. I never use stakes for our plants. Grow them cool and have them clean and stocky and you can have plants with dense heads of bloom two feet or more across, perfectly stiff and upright and without a stick.

THE YULAN MAGNOLIA (*M. conspicua*) was in best bloom with us about the 24th of April, and just at that time I had to supply the flowers for a large dinner party in New York. By way of experiment I sent in a couple of hundred of these Yulan magnolia blossoms and they were a great success. The flowers are very large, pure white and delightfully scented. I gathered them just before they were quite open, kept them stuck in water jars for some hours before packing and then packed them (they were still unopened) very carefully in baskets and with soft paper between them, for the least crease will stain them like a white camellia, and they got to New York in perfect condition. When used they opened wide and had a fine effect. As outdoor plants they last in bloom about a week. I am not prepared to say that it would pay the grower to send these flowers to the city florist to sell again, for they are too delicate and easily stained to stand much handling, indeed, I don't think it would. But isn't there a use for this handsome magnolia as a pot plant for Easter? It grows vigorously, is perfectly hardy and free blooming and not very expensive.

MAGNOLIA STELLATA is a small very bushy shrub with elegant, white, graceful, fragrant blossoms that appear a day or two before those of the Yulan magnolia. Without any exception it is the



VIEW IN THE CONSERVATORY, FAIRMOUNT PARK, PHILADELPHIA

loveliest of all hardy plants of its season, and its blossoms when cut are very grateful and beautiful and without any of the stiffness of other magnolias. The smallest plants bear blossoms, but it is only when the plants get to a size of two to three feet that their great beauty becomes so striking.

THE JAPANESE BLUE DAPHNE (*D. Genkwa*) is just now (April 30) the most striking shrub in our collection. It is a little bushy shrub, two to three feet high, but wider spreading with age, and is now completely covered with showy violet-blue, slightly fragrant blossoms, which appear a week or two before the leaves. Now this is a plant that every florist doing a plant trade can handle to good advantage, and you can take it up as a novelty and boom it with all your might, satisfied that you not only are handling a sterling desideratum but that the thanks of the community are due to you for bringing prominently to their notice so good a plant. True, it has been upon the market for several years, but if you have never seen it and you don't know anything about it ask yourself why? And your own answer is the peoples' answer—because no one ever brought it forcibly to your notice. It is perfectly hardy and little plants only a foot high bloom nicely. It never gets unwieldy like a philadelphus or lilac, but is just

such a plant as there is a continuous demand for for small city lots. Just think of it. If you had a lot of these blue daphnes in full bloom out of doors in your place just now, when every amateur is busy fixing up his garden and sowing and planting, do you think any one of these amateurs with a spare dollar in his pocket could visit your place and go home without one of these blue daphnes? I do not believe he could. And to make sure of the life of the plant in bloom you could have a lot of them growing in pots and plunged out of doors; transplanting from the pots even when the plants are in full flower wouldn't hurt the plants a whit.

A Rare Cypripedium.

Mr. Edward V. Low, of the firm of Messrs. Hugh Low & Co., the orchid specialists and general horticulturists, of London, sailed from New York Saturday, taking with him a plant of the rare *Cypripedium Lawrenceanum* Hyeann.

It was discovered a few weeks ago among a lot of the type—namely, *Cyp. Lawrenceanum*, which the Messrs. Low sold to Edwin Lonsdale some two years ago. This is a lucky find for Mr. Lonsdale, and he is to be congratulated in consequence.

The price paid we are assured was sat-

isfactory and more than equivalent to having the balance of 499 plants *gratis*.

Mr. Low's stay in America was shortened owing to a serious attack of La Grippe which overcame him in New York. As soon as well enough to take the ocean voyage his physicians advised him to return home, instead of taking his accustomed trip westward and to other points.

Mr. John Thorpe has been appointed the representative of the firm of Messrs. Hugh Low & Co. to look after its interests in this country, which we feel sure will prove to be a satisfactory arrangement to all concerned.

MR. T. H. SPAULDING is reported to have purchased from W. K. Harris the entire stock of *Chrysanthemum* Miss Eva Hoyt for \$250.

IF YOU LIKE the AMERICAN FLORIST give it your fullest support by confining your orders to those who advertise in its columns and mention the paper when ordering.

HON. S. M. EMBRY, president of the American Nurserymen's Association is sojourning at Great Falls, Montana.

YOU WILL benefit the FLORIST by mentioning it every time you write one of our advertisers.

News Notes.

LOS ANGELES, CAL.—At the last meeting of the Southern California Horticultural Society Mr. J. C. Harvey read a valuable paper on new and rare plants.

PROVIDENCE, R. I.—F. A. Fairbrother has leased his Eddy street greenhouses to Messrs. Loeffler & Leonhardt and will hereafter conduct the Chestnut street establishment only.

SPRINGFIELD, MASS.—The Hampden County Horticultural Society recently distributed young chrysanthemum plants to 1,100 school children between the ages of 8 to 16 years. For the raising and care of the plants prizes will be awarded at the society's annual chrysanthemum show, November 11 to 13.

LONDON, ONT.—The Forest City Florists and Gardeners' Society will give its second annual chrysanthemum exhibition about the second week in November. The exact date and place of exhibition will be announced later. The premium list has been printed and copies may be had on application to Wm. Gammage, secretary, London, Ont.

SYRACUSE, N. Y.—L. E. Marquette has just completed his new house 113x13, and will soon build a show house 50x25. He thinks he shall stop then. Certainly he has as compact and well arranged a set of greenhouses as can be found in this part of the state. H. Morris, the Elmwood Park florist, is just completing three more houses ranging from 60 to 100 feet long by 14 and 20 feet wide. He also has a water tower 40 feet high and as there is a beautiful never failing stream running through his place he is quite independent of water companies.

When you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED.—Competent florist and gardener open for engagement by the 15th of May. Neighborhood of Chicago preferred. Address Wm. K., care American Florist, Chicago.

SITUATION WANTED.—Meeting with reverses in business, I would like the management of a cut flower establishment out of town for the summer months, or longer if satisfactory to both. Address FLOREST, 322 West 27th Street, N. Y.

SITUATION WANTED.—By single man of good experience in florist business, as well as vegetable growing and landscape gardening. Place with Lutheran church preferred. Address JOHN HORTWASS, 331 Clermont Ave., Brooklyn, New York.

WANTED.—To correspond with a party who thoroughly understands bulb growing, and would come to Bermuda. Address GEO. W. WEST, Shelly Bay, Bermuda.

WANTED.—An experienced rose grower to assist in large establishment. Answer stating wages expected. A single man preferred. Address B. care American Florist, Chicago.

WANTED.—A single man to do greenhouse work, must understand the business; commercial place. Will board man. State wages wanted. TILDE, NOBLE, Jr., Green Bay, Wis.

WANTED, TO LEASE.—A place in the East, two to five thousand feet of glass; good paying business; possession in 10 days. Will pay terms. C. care American Florist, Chicago.

WANTED.—Two thoroughly competent general plantmen; must have best of references. Young man desired. State wages wanted. Apply to CURRIE BROS., Milwaukee, Wis.

WANTED.—A young florist, good general greenhouse worker with a taste for decorations and making up, also a well recommended man. Supplying send references and mention wages expected. JOHN RECK, Bridgeport, Conn.

WANTED.—First class man to take charge of greenhouses, including the forcing of roses, carnations and bulbs for winter flowering; must be a first class grower. Salary and board around \$100 and wages required. Must be single, as I will board him. ISIDORA, care American Florist, Chicago.

WANTED.—At once a first class rose plant and cut flower grower, one who thoroughly understands the same, must be sober and industrious; state experience, references and wages expected; also a good practical second man. WM. A. ROCK, 331 North Ave., No. Cambridge, Mass.

FOR SALE.—Bellape Windmill, 12-foot wheel, in good order, 2,000 gallon tank, fittings and all complete. Also force pump in fairly good order. Will sell all cheap for cash. Address J. A. CONGRESS STREET, Portland, Maine.

FOR SALE.—\$200 cash takes well established first place consisting of two large houses, stock tools, wagons and horses; 140 feet of ground, in good retail locality in Chicago—ground alone worth the money. Address N. W., care American Florist.

ORANGE TREES.
Five Sorts Especially

Grown for Pot Culture,

10 to 15 inch buds, delivered to you, \$2 50 per dozen. 15 to 24 inch, delivered, \$3 00 per dozen.

BOUQUET DES FLEURES,

a flowering variety, excellent for florists, per dozen, \$3 00, delivered.

One of our customers in Connecticut sold \$10.00 worth of flowers off of one 2-year old tree this season.

REASONER BROS.,
Manatee, Fla.BEDDING PLANTS.
PANSIES, CALADIUMS, ETC.

Everything for Spring Planting.

WM. S. EWELL & SON,
Growers and Wholesale Dealers,
38 Wayland St., DORCHESTER, MASS.

Special Offer.

This Stock is all of Our Own Growing here.

The Clematis are unusually fine plants.

ROSES—Niphetos, from 4-in. pots,	\$10.00
" " 3-in. pots,	6.00
Marchal Niel, from 4-in. pots,	10.00
" " 3-in. pots,	5.00
" " 2-in. pots,	4.00
Mme. Chas. Wood, in bud, from 4-in. pots,	10.00
Bon Silene, from 3-in. pots,	6.00
Bride, from 3-in. pots,	6.00
Safrano, from 3-in. pots,	6.00
Mme. Plantier, 2 yr. dormant,	10.00
" " 1 yr. dormant,	8.00
Eva Corinne, 2-3 ft. dormant, 2 yr.,	8.00
Seven Sisters, 2 yr. dormant,	10.00
H. P. nice plants, asst. from 2-in. pots	4.00
Ampelopsis Veitchii, from 3-in. pots,	7.00
" " from 2½-in. pots	5.00
Clematis Jackmanni, 2 yr.,	22.50
" Duchess of Edinburg, 2 yr.,	22.50
" Lucie Lemoine,	22.50
" Assorted, large, flowered,	22.50
" Flanula, 2 yr.,	6.00
" Vitalba, 2 yr.,	5.00
" Viticella, 2 yr.,	7.00
" Coccinea, 2 yr.,	12.00
Aucuba Japonica, strong, from 4-in. pots	10.00
Oleanders, asst., from 2½-in. pots,	10.00
Hollyhocks, asst. col. from 2-in. pots.	5.00
Tree-plant Darkens,.....	\$1.00 per doz.
Dahlia Camellaria,.....	1.00
Pyrethrum Uliginosum,.....	1.50
Myosotis Blue Perfection,.....	20 each.
Figs, asst., 2-3 ft.,.....	20.00 per 100
Verbenas, assorted,.....	2.00 "

PHOENIX NURSERY COMPANY,
BLOOMINGTON, ILLINOIS.

Mention American Florist.

ROSE PLANTS

by the thousands. Clean, strong and healthy. Ready for prompt delivery.

Trade List upon application.

Address GERMOND & COSGROVE,
Rockland County, SPARKILL, N. Y.

LAMBORN AND
OTHER CARNATIONS.
Rooted cuttings and Plants now ready.
J. J. STYER, Concordville, Pa.

YOU ROSES.

Having more than doubled the producing capacity of our Rose houses during the past two years, we are able this season to offer to the trade a very fine lot of young Roses. The varieties are principally hardy and well tested. HYBRID PERPETUALS, such as we grow in large quantities for our own planting. The plants were propagated this winter and are now in 2½ inch pots and in the best possible condition either for planting in the open ground or for shifting. Our list comprises the following good varieties and others, viz:

Alba Carnea,
Admiral Lapeyrouse,
Alex. Bachmettie,
Achille Goudot,
Annie de Diesbach,
Antoine Mouton,
Baron de Bonstetten,
Baron Maynard,
Bertha Baron,
Baltimore Belle,
Baron Taylor,

Beauty of Waltham,
Blanche de Meru,
Baronne Prevost,
Belle de Normandy,
Charles Lefebvre,
Caroline de Sansal,
Climbing Jules Margottin,
Climbing Victor Verdier,
Coquette des Alps,
Comtesse de Serenye,
Doctor Hogg,

Doctor Andry,
Fisher Holmes,
General Jacqueminot,
Jules Margottin,
John Hopper,
La France,
La Reine,
Leopold Hausburg,
Louis Odier,
Magna Charta,
Marchal Forey,

Mary Bauman,
Mrs. Bauman,
Mme. Plantier,
Marie Raby,
Mme. Gabriel Luizeit,
Mme. Alfred de Rougemont,
Mme. Victor Verdier,
Madame Trotter,
Maurice Bernardin,
Mount Carmel,
Jas. Neyron,

President Lincoln,
Perle des Blanchies,
Pierre Notting,
Prince Camille de Rohan,
Queen of Frairies,
Reynolds Hole,
Reine Marie Henriette,
Sir Garnet Wesley,
Sir Joseph Paxton,
Sydney,
Seven Sisters,
Triomphe de l'Exposition.

Price, 2 1/2 inch Pots.

Purchaser's selection . . . per 100, \$6.00; per 1000, \$50.00 . . . 5,000 plants, our selection . . . \$212.
Our selection—a good assortment of the best varieties . . . 5.00; . . . 45.00 . . . 10.000 . . . 40.00.

MANETTI STOCKS. Fine Imported, per 100, \$2.50; per 1000, \$18.00.

W. S. LITTLE, COMMERCIAL NURSERIES, ROCHESTER, N. Y.

ADDRESS

FORCING ROSES

NOW IN EXCELLENT CONDITION.

	2½-inch. Per 100
Duchess of Albany.....	\$7.00
Perle des Jardins.....	5.00
Niphetos.....	5.00
La France.....	5.00
C. Mermet.....	4.00
The Bride.....	4.00

Will book orders for later delivery from 2½, 3 and 4-in. pots. Write for prices.

BROWN & CANFIELD,
SPRINGFIELD, ILL.

Mention American Florist.

ROSES.

We still have ready for immediate shipment, in excellent condition, a fine assortment and true to name.

50,000 ROSES in 2-inch pots, \$35.00 per 1000, our selection; \$40.00 per 1000, your selection.

Send your lists to be priced for everything in the FLORISTS' line. Satisfaction guaranteed. Catalogues upon application.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

ROSES.

All the best varieties for forcing, and also for bedding out, in 2 and 2½-inch pots, \$4.50 per 100; \$40.00 per 1000. Own selection, \$35.00 per 1000. Roses in 3, 4 and 6-inch pots at low rates. Also greenhouse and bedding plants.

Price list free on application.

ADDRESS **A. LAUER,**
1210 E. Broadway, LOUISVILLE, KY.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

1000 La France, 2½-in. pots, \$40 per 1000
500 Perles, 2½-inch pots, \$4.50 per 100
800 Gontiers, 2½ in. pots, " per 100
500 Brides, 2½ inch pots, " per 100
5000 Verbenas in bloom, \$35.00 per 1000; \$4.00 per hundred.

DE WITT BROS., Bristol, Pa.

20,000 Young Roses

Fine Plants, 2½-inch pots.

PERLE, PAPA GONTIER,	\$4.00
NIPHETOS, MERMET,	per
BRIDE,	100.

MME. HOSTE, \$5.00 per 100.

THE FLORAL EXCHANGE,
614 Chestnut Street. PHILADELPHIA, PA.

H. P. ROSES, 2 yr. old, dormant.
CLEMATIS, extra strong, 3 yrs.

SMALL SHRUBS OF ALL KINDS.

Healthy stock in good condition.

W. W. BARNARD & CO.,
6 & 8 North Clark St., CHICAGO.

Waban Rose

READY MAY 15.

From 2½-inch Pots.

1 Plant, \$1.00.	253 Plants, \$80.00.
12 Plants, 3.00.	500 Plants, 15.00.
50 Plants, 3.00.	1000 Plants, 38.00.
100 Plants, 50.00.	

From 4-inch Pots.

1 Plant, \$1.50.	50 Plants, \$50.00.
12 Plants, 15.00.	100 Plants, 75.00.
25 Plants, 25.00.	

The following Agents have been appointed to sell the Rose in the respective territories given below:

WM. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th and Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

EUROPEAN AGENTS: WM. PAUL & SON, Waltham Cross, England.

Mention American Florist.

ROSES. * ROSES.

WABAN, SOUVENIR DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other NEW and Standard Varieties of TEAS; Hybrid Remontant, including HEINRICH SCHULTHEIS, which is by far the best early forcing Hybrid. This is the variety which MR. JULIUS ROHRHS has forced so successfully for the past three years. Also all the best varieties of

HYBRID TEAS, CHINAS and BOURBONS.

For forcing, bedding, etc., etc., of which I have an EXTRA fine stock now ready for shipping at prices as low as any one can produce such stock for. NEW PRICE LIST TO THE TRADE NOW READY.

JOHN N. MAY,

Mention American Florist.

SUMMIT, - - - NEW JERSEY.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices
Now Ready.

AMERICAN BEAUTY ROSES.

Fine plants at \$8.00 and \$10.00 per 100.

FORCING ROSES.

In variety, at \$4.00, \$6.00 and \$8.00 per 100. Those wishing plants to bench during June and July, will consult their best interests by giving me their order now, and have the stock especially prepared to meet that want.

CARNATIONS.

GRACE WILDER, TIDAL WAVE and MAY QUEEN, strong plants, ready for planting now, at \$4.00 and \$5.00 per 100.

ADIANTUM CUNEATUM.

Three sizes, at \$30, \$40 and \$70 per 1000.

SEND FOR TRADE LIST.

M. A. HUNT, Terre Haute, Ind.

E. G. HILL & CO.,

RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAPLES:

ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported

FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.

Mention American Florist.

COLEUS Verschaffeltii, Golden Bedder, Golden Verschaffeltii, Sunset. From 2½-in. pots, \$20 per 1000; \$2.50 per 100. From 5-in. pots, \$25 per 1000; \$3 per 100. Large stock plants, \$5 per 1000; \$1 per 100. All orders should be accompanied by money, otherwise shipped C. O. D.

JOHN RECK, Bridgeport, Conn.



SOLD

BY

Seedsman

Strawberry, Cabbage & Tomato Plants

\$3.00 per 100 for all leading kinds, including Haverland strawberry. **H. H. KERN,**
Bonner Springs Nurseries, Bonner Springs, Kan.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 cents a Line, Agate;
1 inch, \$4.40; Column, \$4.00.
Cash with Order.**No Special Position Guaranteed.**Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
30 times, 20 per cent; 54 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
renewal it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.June 6, Boston.—Rhododendron show
Mass. Hort. Society.June 23-24, Boston.—Rose and straw-
berry exhibition Mass. Hort. Society.September 1-4, Boston.—Annual exhibi-
tion of plants and flowers Mass. Hort.
Society.September 2-3, Galt, Ont.—Fall exhibi-
tion Galt Horticultural Society.September 15-17, Boston.—Annual ex-
hibition of fruits and vegetables, Mass.
Hort. Society.

November 2-8, New York.—Chrysanthemum show Madison Square Garden.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 5-11, Bay City, Mich.—
Chrysanthemum show Bay County Hort.
Society.November 10-12, Pittsburgh.—Chrysanthemum show Pittsburgh and Allegheny
Florists' and Gardeners' Club.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibi-
tion Horticultural Society of Chicago.November 10-13, Minneapolis, Minn.—
Chrysanthemum show Minneapolis Florists' Club.November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana
Florists.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society.

November 11-13, Springfield, Mass.—
Chrysanthemum show Hampden County
Hort. Society.November —, New Orleans, La.—
Chrysanthemum show New Orleans Horti-
cultural Society.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club.

November —, Washington, D. C.—
Chrysanthemum show Washington Florists' Club.November —, Providence, R. I.—
Chrysanthemum show Rhode Island
Hort. Society.November —, Baltimore.—Fall exhibi-
tion and chrysanthemum show Gar-
deners' Club of Baltimore.

November —, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society.

PRICES OF ADMISSION TO EXHIBITIONS.

What shall be the price of admission to our exhibition? is a question that is being asked by quite a number. This is a matter of very considerable importance and conclusions should not be jumped at. We would like to have a discussion upon this matter and will here state our own views for the consideration and criticism of our readers. We believe in a low admission price—and consider 25 cents about right. Why? In the first place

the exhibition is given for the purpose of educating the people to an appreciation of the plants and flowers that are exhibited.

This can not be accomplished unless the people attend the exhibition, and the more that do attend the larger the influence exerted. And certainly more will attend at a low admission price than at a high one. Again we believe that in the majority of cases the paid admissions at 25 cents will be more than double those at 50 cents, and thus there is a financial benefit in the lower price as well as an opportunity to accomplish more good in the way of an increased interest in plants and flowers.

These statements are based upon the assumption that the show is a good one, arranged to appeal to the people rather than to the professional alone, has been properly advertised and the hall where the exhibition is held is of sufficient size to hold a crowd comfortably.

Human nature is much the same everywhere, and people who do not move a quarter are apt to halt when the cost is half a dollar or more, and they will spend a quarter for each of two items much more readily than double that amount for one item. Change positions with the public and see if you would not be affected in about the same way? Again if the price is "only a quarter" people feel better able to "drop in again to-morrow" and if particularly pleased with some special feature will bring one or more of their friends to see it. If the price were higher they would be inclined to forego the pleasure of thus treating their friends. And the people who want to "run in just for a few minutes" will spend a quarter readily for the privilege while double the amount would keep them out.

We would like to have the views of others on this subject.

A FORM of competition in the arrangement of flowers, suggested for the fall exhibition of the Horticultural Society of Chicago by Mr. F. F. Bentley, a florist of that city, seems so desirable that we offer it for general consideration. The proposal is to offer a liberal prize for best arranged basket, each competitor to be supplied with a basket, all of uniform size and shape, and also with a stated number of flowers of medium quality, the same number and quality of flowers and quantity of foliage to be given to each one. The competitors to them fill the baskets and submit them to the judges for decision. All or only a part of the material supplied to be used in the discretion of each one. This sort of a competition would bring the decision of the judges to bear directly upon the question of arrangement and would prove a mighty interesting contest. Competitions in other arrangements could be conducted upon the same plan. Skill in arrangement is shown by the creation of the best effect with the material at disposal and competitions in floral arrangements should be as purely tests of skill as possible.

REGARDING the specimen exhibition advertisements which we printed in last issue we should at the time have called attention to the points considered in building up the advs. First in importance was the display line "Flower Show." This tells the main part of the story. In the first adv. "Now open" was considered next in importance, to sharply define the end of the advance notices. Third came the fact that it was given by an organization that had twice before made such an

exhibition. Thus the prestige of the former exhibitions was secured for this one. Fourth the price of admission. This should be given prominently and in every adv., particularly if the price is low as in this instance. Fifth the hours the exhibition was open daily. Never omit this. Flower shows are necessarily of short duration and the public should be made acquainted with the necessity of coming at once, hence the line "will close Friday evening."

WOULD IT not be well for the Society of American Florists to print in each of its annual reports a list of the Florists' Clubs in America at date, with name and address of the secretaries? Such a record would seem to properly belong in the report, for the clubs are in a measure children of the society. Fuller statistics regarding the various clubs, such as date of organization, number of members at date, frequency of meetings, etc., would be still more desirable. Would it not also be an excellent plan for the secretary of the S. A. F. to keep on file copies of the constitution and by-laws, premium lists and other printed material of the various clubs. Such would undoubtedly be sent him on request and the collection would not only be of considerable historical value in time, but would often be very useful for reference. The national society would seem to be the proper medium for their collection and preservation.

THE NAME of Mr. Walter Maxwell for chief of the Bureau of Horticulture of the World's Columbian Exposition was sent to the Board of Control by Director Gen. Davis, on Thursday last, April 30. It is thought that the appointment will be confirmed although there has been considerable opposition. Mr. Maxwell, as we hear, is hardly a horticulturist, even in the California sense, and much less one who is familiar with the florist, nursery and seed trade east of the Rocky Mountains. It is such an appointment as the friends of horticulture have feared from the first. We can only hope that Mr. Maxwell will not in this high position lack the patriotism and generosity to make a wise choice of his assistants and advisers.

COMPLAINT that some of the pots sold as "standard pots" do not conform to the standard adopted by the Society of American Florists, has reached us. To prevent such a condition of affairs and to protect the trade as well as the makers of the genuine standard pots would it not be in order for the society to ask manufacturers to submit to its committee samples of the pots they purpose selling as standards, and if the pots meet the requirements authorize the secretary of the society to issue a certificate to them which may be used in their advertisements and price lists? It would seem that some such step is necessary to secure the uniformity in size which the standard was designed to bring about.

MR. WM. FALCONER sends us three calceolaria blooms, all of which when pressed flat are over two inches across, the largest two and three-eighths inches. One is the best pure yellow we have ever seen. Mr. Falconer says his calceolarias this year are finer than ever before.

YOU CAN give the AMERICAN FLORIST your fullest support by conning your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughn's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.
All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

A. L. RANDALL,
(SUCCESSOR TO)
C. H. FISK,
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.

E. J. HARMS,
Wholesale Dealer in
CUT FLOWERS,
And Florists' Supplies.
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese,
Wholesale Cut Flowers,
66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
given to shipping orders.

C. STRAUSS & Co.
GROWERS OF CUT FLOWERS.
—(WHOLESALE ONLY.)—
SPECIALTY—Filling Telegraphic Orders.
WASHINGTON, D. C.

CUT FLOWERS.

The Western Trade Solicited.
Write or Telegraph.
SMITH FLORAL CO.,
77 7th Street S. - Minneapolis, Minn.

Palms and Dracaenas.
The largest stock in the west, at \$3.00 per 100 to
\$1.00, \$2.00 to \$10.00 each. Cycas revoluta, 50c to
\$5.00 and \$15.00 each. Cycas leaves 50c. to 50c. each.
DRACENA INDIVA AND VEITCHII,
5-inch pots, strong, 15 to 18 inches, \$5.00 per 100.
Send for wholesale price list and descriptive catalogue.

W. J. HESSER, Plattsmouth, Neb.

CATALOGUES. *

I MAKE 'EM, WITH CUTS
AND "KNOW HOW."
J. Horace McFarland,
..... HARRISBURG, PA.

EVERY FLORIST SHOULD HAVE A COPY OF
OUR TRADE DIRECTORY.
AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

@Wholesale Markets.

Cut Flowers.

BOSTON, May 5.	
Roses, Bon Silene.....	2.00 @ 6.00
" " Fancy.....	3.00 @ 12.00
" " Jacq. Hybrids.....	75 @ 1.50
Carnations.....	75 @ 4.00
Valley.....	50 @ 1.00
Dafoedii.....	50 @ 1.00
Tulips.....	50 @ 1.00
Paisies.....	50 @ .25
Harrisii.....	6.00 @ 6.00
Callas.....	10.00 @ 10.00
Stocks.....	1.50 @ 1.50
Waterlilies.....	15.00 @ 15.00
Adiantum.....	1.00 @ 1.50

NEW YORK, May 5.	
Roses, Beauties.....	3.00 @ 25.00
" " Hybrids.....	3.00 @ 25.00
" " Bon Siere.....	1.00 @ 3.00
" " Gontiers, Woottons.....	1.00 @ 3.00
" " Hostes, Perles.....	1.00 @ 3.00
" " Niphetos, Soure.....	1.00 @ 3.00
" " Mermets, Brides.....	1.00 @ 4.00
" " Stocks.....	1.00 @ 4.00
" " La France, Albany.....	2.00 @ 5.00
" " Jacq.....	5.00 @ 10.00
Valley, Laodii.....	1.00 @ 2.00
Tulips.....	2.00 @ 3.00
Mignette.....	50 @ 1.00
Carnations, long.....	2.00 @ 3.00
Harrisii lilies.....	3.00 @ 5.00
Lilac, outdoor, per bunch.....	1.00 @ .35

PHILADELPHIA, May 5.	
Roses, Beauties.....	3.00 @ 40.00
" " Bruders.....	40.00 @ 40.00
" " La France, Albany.....	35.00 @ 35.00
" " Lains, Lulsets.....	10.00 @ 10.00
" " Gontiers, Woottons.....	6.00 @ 8.00
" " Mermets, Brides.....	6.00 @ 8.00
" " Perles, Niphetos.....	3.00 @ 4.00
Carnations.....	4.00 @ 4.00
" " Wilders.....	2.00 @ 2.00
Valley.....	4.00 @ 5.00
Tulips.....	2.00 @ 6.00
Dafoedii, single.....	2.00 @ 6.00
Sweet peas.....	2.00 @ 2.00
Adiantum.....	2.00 @ 2.00
Smilax.....	30.00 @ 25.00

CHICAGO, May 5.	
Roses, Bon Silene.....	1.00 @ 2.00
" " Niphetos.....	1.00 @ 2.00
" " Mermets.....	4.00 @ 6.00
" " La France.....	4.00 @ 6.00
" " Brides.....	4.00 @ 6.00
" " Beauties.....	10.00 @ 12.00
" " Gontiers.....	2.00 @ 2.00
" " Jacq.....	10.00 @ 15.00
" " Hoste.....	5.00 @ 7.00
" " Hoste.....	5.00 @ 5.00
Carnations, short.....	1.00 @ 1.50
Carnations, long.....	3.00 @ 4.00
Valley, Romans.....	8.00 @ 10.00
Callas.....	8.00 @ 12.00
Harrisii.....	8.00 @ 12.00
Tulips.....	5.00 @ 7.00
Smilax.....	15.00 @ 25.00
Dutch hyscints, outdoor grown.....	2.00 @ 3.00
Dafoedii, outdoor grown.....	2.00 @ 3.00

Supply shortening and a tendency toward higher prices.

WM. J. STEWART,
Cut Flowers & Florists' Supplies
—WHOLESALE—

87 Bromfield Street, BOSTON, MASS.

N. F. MCCARTHY & CO.
Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Plants and Carna-
tions always on hand. Return telegrams sent
immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and
Requisites. They are the
best at the lowest prices.
TRADE LIST issued quar-
terly, mailed free to the
trade only.

HENRY A. DREER,
Philadelphia

Mention the AMERICAN FLORIST
when writing to advertisers on this
page.

THOS. YOUNG, JR., WHOLESALE FLORIST

20 West 24th Street,
NEW YORK.

LILY OF THE VALLEY,
And the Choicest ROSES for the
fall and winter season.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
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—WHOLESALE—
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**WHOLESALE CUT FLOWERS AND
FLORISTS' SUPPLIES.**
THE WISCONSIN FLOWER EXCHANGE,
133 Mason Street, MILWAUKEE, WIS.

CHRYSAETHUMUMS, 16 best for pot and cut
flower.
VIOLET CLUMPS, Marie Louise, each clump
has from 10 to 16 runners, all healthy stock.
ACHILLEA, rooted cuttings, very useful for cut
flowers.
DOUBLE WHITE HOLLYHOCKS, strong, one
year old plants.
CALLAS, one, two and three year old plants.
JOHN P. TONNER, Mount Clare, Ill.

Tuberous Begonias
Separate colors, per 100, \$3.00; mixed,
\$2.75. Double, \$4.50; mixed, \$4.00.

BRAUER & RICHTER, McConnellsville, O.

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SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN PORTER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

Non-Warranty of Seeds.

W. G. in the *Farm, Stock and Home*, of Springfield, Mass., writes as follows on the above subject:

Purchasers of field or garden seeds need have no fears that they are not warranted notwithstanding when they arrive they find pasted across the package a notice of non-warranty, as some dealers do. The sale of the seed and the transfer of ownership occurred the moment the dealer received his stipulated price for them, and any conditions he may attach to them unknown to the purchaser at the time of payment are void. The conditions on the invoice received after the contract was made have no modifying power on the contract itself. The law says the purchaser has his remedy if he does not get what he paid for; and where he buys seeds there is an implied warranty that such seeds are true to name, and will grow if given proper conditions. It will be asked: Then why do some seed dealers attach a notice of non-warranty? There are many careless people who might plant so ill that the best seeds would not grow or mature. Should the purchaser amount to a considerable sum they might seek redress from the seller. It is to deter such from trying to recover that the non-warranty notice is used; it is simply a "scare" expedient. It may be all right in itself, but as a point of law it is not worth the paper upon which it is printed.

We have seldom found so few grains of truth contained in so much chaff as in the above article. W. G. says: "Purchasers need have no fears that the seeds are not warranted notwithstanding a notice of non-warranty may be pasted across the package." Also "Any conditions attached to them unknown to the purchaser at the time of payment are void."

Now what are the facts in ninety-nine cases out of every hundred? Nearly every seed firm in America and all belonging to the "American Seed Trade Association" print on the first pages of their catalogues the non-warranty conditions similar to one of these:

"While we exercise the greatest care to have all seeds pure and reliable we do not give any warranty express or implied. If the purchaser does not accept the seeds on these terms and conditions they must be returned at once, and the money that has been paid for same will be refunded."

"We test all seeds before sending them out, but in case they fail to grow when tested by purchaser we will replace them or give value in others, but cannot in any manner warrant the crop or be responsible for other failures."

Again, the same conditions are usually printed on the heading of the catalogue order blanks. Now what seed buyer ordering from catalogue by mail could fairly claim such conditions to be unknown to him as a buyer? One other condition of the sale of seeds exists, the transfer of ownership over the seed counter. Could W. G. when buying 5 cents worth of turnip seed at the seedsman's retail counter deny that he understood the non-warranty conditions if the same were printed on the bag which he received in exchange for his nickel? And if he did know these conditions what just claim has he on the seller?

ROCHESTER, APRIL 28, 1891.—Mr. F. Benary of Erfurt was given a complimentary supper here last evening by the seeds-men of Rochester and vicinity.

CHARLESTON, S. C.—The recent floral fair was visited by over 3,000 people.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

SYRACUSE, N. Y.—The members of the Central New York Horticultural Society are to be congratulated on the success of their first annual spring show, which was larger and better than the most sanguine expected. Messrs. P. R. Quinlan & Co. did much to add to the success, for they spared neither time nor expense in making their exhibit worthy of the firm. Nearly all the other florists were represented. Mr. Peter Kay, gardener to Hon. J. J. Belden, had a fine display of foliage and flowering plants, as did also Mr. G. Ham, gardener at the State Hotel Asylum. Mr. McNeelley, gardener to Hamilton S. White Esq., showed a nice collection of plants, among which were some fine seedling carnations, one especially resembling in color and make up a La France rose and which was awarded a first prize for a plant of merit. Among the amateurs Mr. J. Huller staged a very nice collection of bulbs in flower and some fine pansies. Mr. Thos. Durston exhibited a pretty group of palms and begonias. The awards of prizes were given last week. Mr. W. Mathews and Mr. H. Baker of Utica and Mr. J. Morgan of Auburn acted as judges and of course gave universal satisfaction. Too much praise cannot be given to the president, Mr. A. D. Perry, who is always to be found ready with means and muscle to help the society.

GRAND RAPIDS, MICH.—The Grand River Valley Hort. Society will hold its next regular meeting at the home of Henry Smith, the florist.



Z. DE FOREST ELY & CO.,
WHOLESALE IMPORTERS OF BULBS,
1301 and 1303 Market Street, PHILADELPHIA, PA.

G. J. MOFFATT,
Manufacturer of
SEED BAGS
ENVELOPES OF ALL KINDS.
Printing a Specialty.
NEW HAVEN, CONN.

Samples and prices on application. When writing for prices, please state sizes and quantity wanted.

Do you want the
BEST SEEDS?

If so, send to
SCHLEGEL & FOTTLER,
Growers and Importers,
BOSTON, - - MASS.
Mention American Florist.

CLEMATIS.
Fine young plants, 2½-inch. Prices on application.

ASPARAGUS—CONOVER'S.
Strong, 2 and 3 years, \$3.00 per 1000.
\$2.50 in 5,000 lots.
F. A. BALLER, BLOOMINGTON, ILL.

SIEBRECHT & WADLEY,
Rose Hill Nurseries,
NEW ROCHELLE, N. Y.

New and
Rare Plants



ORCHIDS

PALMS,

FERNS.

Hardy
Plants.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

A FRESH CONSIGNMENT OF
MEXICAN ORCHIDS

Such as *Laelia anceps* (winter bloomer), *Laelia albidia*, *Cattleya citrina* (extra fine), *Epidendrum vitellinum majus*, *Odontoglossum aureum* (true), *Odontoglossum maculatum*, *Oncidium ornithorhynchum*, etc., etc., at very low prices.

Write for price list.

FREDERICK MAU,
P. O. Box 322, South Orange, N. J.

ORCHIDS.

The finest stock in the WORLD. Nearly five acres devoted to their culture.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

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HAIL Lock the door BEFORE the horse is stolen. Do it NOW!
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

**CHOICE AMERICAN GROWN
FREESIA BULBS,
READY IN JUNE.**

We have had grown for us 100,000 Choice Bulbs of **FREESIA REFRACATA ALBA**, which we offer on contract orders booked now, until stock is exhausted, at the following prices:

FIRST SIZE, SELECTED, much larger than French grown bulbs	Per 100	Per 1000
PURE WHITE, SELECTED, EXTRA	\$1.00	\$ 8.00
very fine bulbs	1.25	10.00

Special rates on application for large orders.

FLORISTS USING LILY OF THE VALLEY, GERANIUMS, PANSIES, ROMAN HYACINTHS, NARCISSUS, DUTCH HYACINTHS, TULIPS, Etc.

will do well to send lists for our special offers. The quality of our Bulbs is unexcelled.

CHOICE MIXED LAWN GRASS,
in 1, ½ and ¾ lb. pkgs. at 18c. per lb.

Headquarters for Phila. Lawn Mowers
AND REPAIRS.

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO.

DAISY SNOWFLAKE

At a great reduction for the next 30 days to give every florist a chance to secure some of this profitable Daisy. Order early as the stock is going fast. Fine, strong plants by Express, \$4.00 per 100; free by Mail, \$1.00 per dozen.

FRED SCHNEIDER, Wholesale Florist,
Wyoming Co., ATTICA, NEW YORK.

ONE HUNDRED THOUSAND
Marie Louise Violet Plants,
WITHOUT DISEASE.

Ready May 15, \$4.00 per hundred.

GARLAND BROS., Desplaines, Ill.

SPECIAL LOW PRICES

ON
Lilium Harrisii, Longiflorum, Candidum, Roman Hyacinths, Paper White Narcissus, and all other kinds.

DUTCH HYACINTHS.

TULIPS, CROCUS, SPIRÆA, LILY of the VALLEY, AZALEA INDICA, ROSES, ETC., ETC.

Wholesale price list on application to

HULSEBOSCH BROS.,
P. O. Box 3118. NEW YORK CITY.

The only Dutch Bulb Growers of whose firm there resides a member in New York, to conduct the business. So that we can be reached always.
Mention American Florist.



BULBS, BULBS, BULBS.
CHINESE NARCISSEUS.

Order Now if you wish to secure the BEST GOODS at Lowest Rates.
AUSTRUM, LONGIFLORUM, RUBRUM, KRAMERI, ALBUM, ETC. CALIFORNIA BULBS.
We guarantee you best stock at the most reasonable rates if ordered now.
Australian Palm and California Flower Seeds.
Send for our Newest Trade Price List.

H. H. BERGER & CO.,
P. O. Box 1501, SAN FRANCISCO, CAL.

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND.

LARGEST GROWERS OF

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES
OF THE VALLEY, ETC.

Headquarters for Forcing Bulbs. Wholesale Importers should write us for prices.
Mention American Florist.

J. A. De Veer,

154 East 34th St., NEW YORK.

A full line of Summer Flowering Bulbs, Seeds, Plants and Florists' Supplies furnished at lowest market prices.

CATALOGUE FREE TO APPLICANTS.

C. H. JOOSTEN,

3 Coenties Slip, NEW YORK.

—IMPORTER OF—

Bulbs and Plants.

PRICES ON APPLICATION.

TUBEROSES.

Pearl, medium bulbs, per thousand, \$4.00. Samples free.

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LILY OF THE VALLEY

Very Strong Flowering Plants. Offers for the AUTUMN, in LARGE QUANTITY.
JULIUS HANSEN, Pinneberg, Germany.

LILY OF THE VALLEY NURSERY.
Large Silver Medal, Berlin, 1891. Bronze Medal, Hamburg, 1899.

Pontederia Crassipes Major or

WATER HYACINTH. Wanted.

State quantity and price.

ALSO LIGHT COLORED GLADIOLUS.

ELY'S SEED STORE,

Lock Box 1176. PHILADELPHIA, PA.

WE BOOK NOW!
Roman and Dutch Hyacinths, Paper whites, Daffodils and other Narcissus, Tulips, Freesia, Spirea, Crocus, Lilium.—Harrisii, Candidum, Longiflorum, Auratum, Calla, Lily of the Valley, etc. etc.

ROSES, PALMS, AZALEAS, CLEMATIS, RHODODENDRON, LAURUS TINUS, LAURUS NOBILIS, etc.

ORDERS FOR TALL DELIVERY AND

TERMS AND ESTIMATES ON APPLICATION

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AUGUST RÖLKER & SONS,
136 & 138 W. 24th St.,
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ADDRESS LETTERS: STATION E.

— Facts —

We were the first to offer true, healthy, Lilium Harrisii at low prices.

Florists showed their appreciation:

the bulbs gave satisfaction!

Our Stock, from same growers as last year, will be ready for delivery in July, it is first class in every respect and prices reasonable. — Send list of your wants for estimate, also of French and Dutch bulbs.

Joseph Breck & Sons,

57, 52 & 53 North Market Street, Boston, Mass.

HOLLAND FORCING BULBS

And Flower Roots of all kinds. FIRST CLASS Goods.

— SEND FOR OUR PRICE LIST. —

ORDER EARLY.

C. H. C. MACHEN & SONS,

WHOLESALE BULB GROWERS.

WHOLESALE ONLY.

WARMOND, (NEAR HAARLEM), HOLLAND.

GEO. W. WEST,

Grower of the

Pure Lilium Harrisii.

Also FREESIA, AMARYLLIS, CALLA

BULBS, ETC. Wholesale only.

All shipments warranted true to name. Address at once.

GEO. W. WEST, Shelly Bay, Bermuda.

ENGLISH HYBRID PRIMROSES.

This being my last year in business, I desire to clear out my entire stock as soon as possible, as my health will not permit a continuance. The variety of color is unsurpassed, especially the yellows. Prices \$1.50 per doz., \$10 per 100. GOLDEN QUEEN, etc. each.

A. F. CHATFIELD, Albany, N. Y.

CHINESE PRIMROSE SEED.

Finest colors; large flowers; fringed; all strong growing kinds; bloom through above the foliage. Special trade pkts. for florists, 400 seeds, price \$1. Circulars sent on application. Address

HENRY S. RUPP & SONS, Shrewsbury, Pa.

Mention American Florist.

I CAN NOW BOOK ORDERS

for the following pot grown Cosmos, Asters, Mignonette and Lobelia; 2,000 plants now ready. ORDER EARLY. Try it once, you will lose nothing, and may gain by doing so. Write for prices. Watch the Florist. Cash with order.

W. T. STEPHENSON, Petersburg, Ill.

Position of Rose House.

In reply to the query that appeared under the above heading on page 703 I will say that in my experience, where ground will permit, a house running north and south is the most desirable for all seasons of the year, and a southeast exposure is preferable. The morning sun is much preferable to that of the afternoon. The hill southern exposure of an east and west house is very hard on plants and flowers at some seasons of the year, giving the midday sun full sway while the north and south house gives the morning sun and at noon presents the ridge to its rays, thus helping to keep the house cool.

Madison, N. J. J. S. M.

NEWLY INCORPORATED.—F. R. Pierson Company, of Tarrytown, N. Y., to propagate, cultivate and develop the different varieties of grapes, roses, lilies and all other varieties of flowers, seeds, bulbs and plants, and prepare the same for market. Capital, \$50,000; Trustees, Frank R. Pierson, Paul M. Pierson, John W. Caley, Edward W. Newbrand and Kate L. Pierson.

THOS. W. WEATHERED'S SONS, the well known manufacturers of heating and ventilating apparatus for greenhouses, have removed their New York office from 46 and 48 Marion street to 244 Canal street.

MR. HARRY BAYERSDORFER of H. Bayersdorfer & Co., Philadelphia, sailed for Europe May 6 in the steamer City of Chicago to look up novelties in florists' supplies for the fall trade.

MR. J. A. DEVEER, the horticultural commission merchant, New York, has removed from 18 Burling Slip to 154 East 34th street.

VERBENAS.

IN BUD AND BLOOM.

	Per 100	Per 1000
General Collection, bushy plants.....	\$4.00	\$25.00
N. X. Mammoth Set.....	4.00	30.00
General Collection, Rooted Cuttings.....	1.25	10.00
COLEUS Golden Verschaefeltii, Golden	1.00	8.00
Bedder and Verschaefeltii.....	1.25	10.00
And 50 other best sorts.....	1.50	3.00
Heliotrope, Rooted Cuttings, named.....	1.25	10.00
Ageratum.....	1.25	10.00
Fuchsias.....	1.50	12.00
Lemon Verbenas, strong, 1 year old dor.....	6.00	75.00
Vines, strong, 1 year old.....	8.00	75.00
Ampelopsis Veitchii, strong.....	8.00	75.00
Mandarin Vines.....	6.00	75.00
Chrysanthemum varieties and prices on application.		
ROSES, extra fine plants. Perles, Mermet, Bride, Mme. Cusin, Mme. de Watteville, S. D'ant, Ang. Sibeton, Sunset, La France, Cook, Goutier, Bon and de Saffron.....	2 1/2 inch pots	5.00 45.00
Hybrid Perpetuals, in bud and	5 inch	25.00
Golden Shell.....		

Trade List of Florists' Stock Free.

WOOD BROTHERS,

(Successors to I. C. WOOD & BRO.,) FISHKILL, N. Y.

VERBENAS.

PERFECTLY FREE FROM RUST.

20 vars. new seedlings, Mammoth strain, per 100 \$5; per 1000 \$25.
Rooted cuttings of same, 100 \$1; 1000 \$5.
Fine stock Heliotrope, 2 1/2-in. pots, \$3 per 100.
Primroses, double, per 100 \$12.00.
single, per 100 \$3.00.
Geraniums—latest Novelties.
Lantana borbonica, 5-inch \$4.00, 4-inch \$3.00 per dozen.
Miscellaneous stock of all kinds.

ROSES.

Mad. Hoste, La France \$5.00 per 100.
Duchess of Albany \$7.00 per 100.
Gautiers, Perles, Mermetis, Bon Silences, Brides, Niphotos and 30 varieties of monthly roses, \$4.00 per 100 or \$35 per 1000.
H. P.'s, purchaser's choice, \$6.00 per 100 or \$50.00 per 1000.
H. P.'s, our choice, \$5 per 100 or \$40 per 1000.

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

ROOTED CUTTINGS.

CARNATIONS: Have a fine lot of MRS. FISHER now ready, at \$1.50 per 100; \$12.50 per 1000. This sort is a good strong grower, and these cuttings will make good sized plants for next winter's blooming. Am sold out of all others.

COLEUS: Well Rooted Cuttings of a choice assortment, all good bedding varieties, and an extra large stock of VERSCHAFFELTII. Price, \$6.00 per 1000; 250 at 1000 rates.

PANSIES.

I have still a few of these left; they are fine blooming plants and an extra choice strain. Order at once to secure them. Price is \$1.75 per 100; \$15.00 per 1000.

My Pansies are meeting with the largest sales of any strain in the country, and I shall grow this season not less than half a million to accommodate my customers, some of whom were disappointed last season, but it is not too early to have your order booked—make assurance doubly sure.

The \$6.00 per 1000 SMILAX is all sold. About the last of June and the balance of the Summer, will have some fine pot plants. See adv. for these and Pansies next week.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

SPECIMEN CENTER PLANTS.

PANDANUS UTILIS FOR VASES,

3 to 4 feet, strong, \$2.50 to \$5.00 each.

DRACAENA FRAGRANS, Canes 50 cts. per yard, by Mail or Express.

SIEBRECHT & WADLEY,
Rose Hill Nurseries, NEW ROCHELLE, NEW YORK.

Mention American Florist.



DRACAENA INDIVISA

Selected, 3 ft. high, \$30 per 100.

Second grade, \$20 per 100.

These plants are very fine for vases and the centers of beds. Can be shipped safely by freight to any point in the U. S. Cash with order.

Fine MERMET and BRIDE ROSES, 2-inch pots, at \$35.00 per 1000.

SCHILLER & MAILANDER,
NILES CENTER, ILL.

Mention American Florist.

CARNATIONS.

Silver Spray, Fred. Creighton, Golden Gate, Fair Rosamond, J. R. Freeman, Hector, Mrs. Fisher, Wm. F. Dreer, Chastity, Tidal Wave, Grace Wilder, L. L. Lamborn, Constancy, Edelweiss, Emile Louise Taplin, Angelus, Louise Porsch, Nellie Bly, Dorothy, Day Break, Nellie Lewis, and sixty other leading varieties. 1000 ready now. Send for Price List, and secure your stock.

GEO. HANCOCK, Grand Haven, Mich.

50,000 VERBENAS.

In Bud and Bloom.

VERBENAS. VERBENAS.

Absolutely free from disease, from 2 1/2 inch pots, \$2.00 per 100; \$15.00 per 1000.

AMPELOPSIS VEITCHII, 2 1/2-in. pots, \$4.00 per 100.

CYCLAMEN GIGANTEUM, Williams' finest strain, from imported seed, 2 1/2-inch pots, \$6.00 per 100.

Address J. G. Burrow,

FISHKILL N. Y.

Mention American Florist.

PRICE, \$2.50 per 100; \$20.00 per 1000.

Grown in 2 1/2-inch pots, perfectly healthy. The choicest and best selling varieties.

Order Immediately.

J. L. DILLON, Bloomsburg, Pa.

ROOTED CUTTINGS

—OF—

CARNATIONS.

In great quantity, ready now.

JOS. RENARD, Unionville, Chester Co., Pa.

Mention American Florist.

Cut Worms.

In the AMERICAN FLORIST of April 16 is a communication from Chas. F. Baker describing the variegated cut worm, of which I sent him some specimens.

I wish to correct a mistake in his article. The article makes me say that I dug a quart of worms from about the roots of one smilax plant. I dug them from a smilax bed about 3 by 10 feet.

I see that Mr. May describes the same worm and gives us a method for trapping the moths, to place boards loosely together for them to hide among.

I have found another way to destroy them which I find quite effective. We smoke out the houses occasionally to kill greenfly, and if we find any moths after smoking they are quite sure to be dead moths.

Mr. May also says that if a batch of the eggs should happen to get into the soil of the rose bed in the fall or early winter the worms would make short work of the young roses. I have had them in my rose and carnation beds all winter. My experience is that they do not eat the foliage of either, but they eat holes in the buds, and if let alone would destroy more than half of them.

If the surface of the rose and carnation beds are carefully scraped over once in ten days and the worms killed the damage will be slight. A. B. HATHAWAY.

New Bedford, Mass.

Moles and Mice.

In answer to subscriber, page 684, in regard to moles and mice in cold frame, plant some castor oil seed, or in other words parmacristal seed. They will do for moles. As to mice I can't say. I have some of the seeds, subscriber is welcome to some if he will write for them.

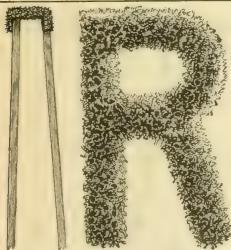
Nashville, Tenn. ECKHARDT & Co.

L. Harrisii Again.

I had a Harrisii for Easter with 15 fine blossoms on a stem a little over five feet high. This beats Mr. Ackley's in number of blossoms if not in length of stem. How is that for this cold climate of Canada?

R. B. HEATHER.

Brockville, Ont.



THE CEFREY FLORISTS LETTER CO.

Manufacture the BEST LETTERS IN THE MARKET.

sizes 1/2 inch and 3/4 inch, \$2.00 per 100. Patent fastener with each letter.

WHEAT FANSTERS OF EVERY DESCRIPTION.

N. F. McVINTY, Mgr. Address JOHN B. OLSEN, Asst. Mgr., 13 Green St., 800STN. Mention American Florist.

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AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

GRAND CHRYSANTHEMUM SHOW

—AND—

HORTICULTURAL BAZAAR.

—30,000 square feet of surface.—

MADISON SQUARE GARDENS, NEW YORK CITY,

NOVEMBER 2 TO 8, 1891.

\$6,500 in Premiums.

This will be the greatest exhibition ever attempted in America. See preliminary schedule.

This will be a surprise to all who have ever had an idea of what New York can and will do.

There will be seed stores and flower stores from all cities between Boston and Chicago.

There will be full sized—120 x 20 feet—greenhouses, with heating apparatus complete. There will be all kinds of tools and appliances. There will be all the novelties, mechanical and otherwise, and the preliminary schedule of \$6,500 is only a part of the premium list. It is safe to say that \$2,000 will be given in silver cups.

Just Published.
NEW BOOK ON MUSHROOMS.

By WM. FALCONER.

Florists will hail this publication as a boon—there having been no exhaustive treatise specially applicable to their wants heretofore. Having made special arrangements with the publishers of this valuable work we are enabled to offer it at the reduced price of **\$1.35 per copy** post free to any address in the United States or Canada. We have still a few hundred copies of Mr. Robinson's work on "MUSHROOM CULTURE" left; 50 cents per copy postpaid. Our own little book "MUSHROOMS FOR THE MILLION", 16 pages, you can have free for the asking. Book your orders now for Gardiner's Imported Mushroom Spawn for August delivery—the first of next season's consignments arrives then.

We are also offering at present at remarkable values on White Romans, Von Sions, Harrisii, etc. for August delivery. Send for our prices before buying elsewhere. Harrisii grown from our stock the past season were acknowledged to be the "finest ever exhibited in Philadelphia." Don't fool with poor stock. Our Fancy strain of Chinese Primrose should interest you about this time. \$3.50 per 1000 seeds; 50 cts. per 100. A full line of all kinds of Choice Flower Seeds specially selected for florists' use. Write us when in want.

Philadelphia, Pa., U. S. A. | JOHN GARDINER & CO.

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Trial grounds, Radnor, Pa. Stock and Seed Farm, Downingtown, Pa.

FLORAL DESIGNS.

The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address with \$3.50 for the book

J. HORACE McFARLAND,

Box 655, HARRISBURG, PA.

F. A. RIECHERS & SOHNE, Act Ges,

Import and Export Nurseries,
HAMBURG, GERMANY.

Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses

and Dwarf Roses
See Wholesale Catalogue on application.
Mention American Florist.

AT HOME.



We are now in our NEW BUILDING, and prepared for your orders

FLORISTS' SUPPLIES.

Thanking you all for past favors and hoping a continuance of same, we remain,

PHILA. IMMORTELLE DESIGN CO.,

725 Arch St., Philadelphia.

Mention American Florist.

CONCERNING

Propagation of Plants.

A COMPLETE HAND-BOOK OF PROPAGATION AND POLLINATION.

THE NURSERY BOOK has been prepared with the utmost pains. It embodies the experiences of many experts. The author, Prof. L. H. Bailey, editor of *The American Garden*, has been engaged in its preparation for many months, and has visited many nurseries and specialists, gathering material upon technical points outside of his practice. The whole volume has been read and criticised by Prof. B. M. Watson, of the Bussey Institution, one of the best propagators in this country. All available authorities have been consulted, and particular parts have been submitted to experts. The fruit matter has had the criticism of leading nurserymen, and the head propagator of probably the most important nursery in America has been freely consulted. The Orchid matter has been prepared by W. J. Bean, of the Kew Royal Gardens. The instructions in the nursery list, which gives the definite methods for each plant, have been read by at least four persons. The book is absolutely devoid of theory and speculation. It has nothing to do with plant physiology; nor with any abstruse reasons of plant growth. It simply tells plainly and briefly what every one who sows a seed, makes a cutting, sets a graft, or crosses a flower wants to know. It is entirely new and original in method and matter. The nearly 100 illustrations are made especially for it, direct from nature. The book treats of all kinds of cultivated plants, fruits, vegetables, greenhouse plants, hardy herbs, ornamental trees and shrubs, forest trees.

CONTENTS.

CHAPTER I—SEEDING. CHAPTER II—LAYERAGE. CHAPTER III—SEPARATION. CHAPTER IV—CUTTING. CHAPTER V—GRAFTAGE. Including Grafting, Budding, Inarching, etc.

CHAPTER VI—NURSERY LIST. This is the great feature of the book. It is an alphabetical list of over 2,000 varieties, with a short statement telling which of the operations described in the first five chapters are employed in propagating them. The following entries will give an idea of the method.

ACER (MAPLE). Sapindaceae. Stocks are grown from stratified seeds, which should be sown an inch or two deep; or some species, as *A. dasycarpum*, come readily if seeds are simply sown as soon as ripe. Some cultural varieties are layered, but better plants are obtained by grafting. Varieties of native species are very numerous and are all well stocked. The Japanese sorts are inter-worked upon imported *A. polymorphum* stocks either by whip or veneer-grafting. Maples can also be budded in summer, and they grow readily from cuttings of both ripe and soft wood.

PHYLLOCACTUS, PHYLOCREUS, DISCOCACTUS (CACTI). Cactaceae. These plants bear seeds grow readily sown in rather sandy soil, which is well drained and apply water as for common seeds. When the seedlings appear, remove to a light position. Cuttings from mature shoots, three to six inches in length, root readily in sharp sand. Give a temperature of about 60 degrees, and apply only sufficient water to keep from flagging. If the cuttings are very juicy, they may be laid on dry sand for several days before planting.

GOOSEBERRY RIB. These only the raising of new varieties, should be sown as soon as well cured, in January or sandy soil, they may be sown stratified and sown together with the sand in the spring. Cuttings six to eight inches in length, root readily. Inserted two-thirds their length, usually grow readily, especially if taken in August or September and stored during winter. Stronger plants are usually obtained by layers, and the English varieties are nearly always layered in this country. Ground-layering is usually employed the English varieties being allowed to remain in layerage two years, but the American varieties only one (p. 27). Layered plants are usually set in nursery rows for a year after removal from the nursery. In the spring during summer is sometimes practised for new or rare varieties.

CHAPTER VII—POLLINATION.

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A Spring Perennial.

Polyxena Maia Mithua, child of parents well to do.

Married Mopsidos of Athens, B. C. 342. And they took a neat suburban villa by the sounding sea.

Where they subsequently raised an interesting family.

There would Polyxena linger, when her husband, every day.

Sought his flourishing helmet business, on the Apollonian Way.

There would Polyxena linger, looking somewhat sadly out.

On the bare and clayey courtyard, where the brass reliefs were.

On the bare white marble benches, on the vases holding up.

One on either side the portal, a provoking empty cup.

Till she longed for leaves and blossoms—as most women think they long.

Till they get the job of watering—with a passion pure and strong.

There, one day there came a peddler from Phoenicia's distant land.

With a large vocabulary and a manner firm, yet bland.

In his hand a bulb he carried, sleek and shiny, pale of hue.

Called, he said, the Mithridatic sempiternal phylloxera.

Better known in common parlance as the Front-Yard's Peerless Pride:

And he thus described its glories (Polyxena looked and sighed):

"This extremely hardy annual is a plant of sweet smell.

And it frequently attains a height of 47 feet; Blooms profusely all the summer, bearing flowers of startling size.

Pink and blue and white and purple, dotted o'er with peacocks' eyes.

Changing into fruit whose flavor can remotely be described.

By the statement that they beat the nectar that the gods imbibe.

In the fall, the bulbs dividing, so increase and multiply.

As I hope you—' here she checked him—' may observe before you die.

To export this plant is treason by Phoenicia's stern decree,

I escaped with half a dozen—you may buy the last of me.

No one else can get another—Anatolia next door offered twenty drachmas for it—it is yours for twenty-four."

Polyxena bought the treasure from her small domestic store.

And the peddler then departed. He will reappear no more.

Polyxena nursed her treasure with a woman's tender care.

Watered, weeded, fertilized it, watching for its flowering fair.

Leaves appeared, tall, graceful, slender—Polyxena glowed with pride—

And it lingered till the autumn, then it gently drooped and died.

Then came Mopsidos the scoffer, and exhumed the plant with glee—

All along he'd been as nasty as a man can sometimes be—

Raised it to his Grecian nostrils—bit it—looked one moment wise.

Then he said, "It is an onion." Tears bedimmed two pairs of eyes.

This was years ago Attica, many, many, many, many years ago.

Earth has long assimilated all who played this play of woe.

To-day where'er the gay suburban brings his youthful wife—

As a temporary measure—then to settle down for life—

On the rolling hills of Jersey, on Westchester's fertile plains,

Where the light mosquito buzzes, where Malaria vibrates, reigns,

At Josephus-on-the-Hudson, at Bohunkus-by-the-sea.

Annually is enacted this distressing tragedy—And as long as women are women, peddlers, peddlers, it will be.

—Puck.

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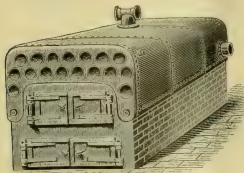
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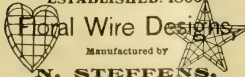
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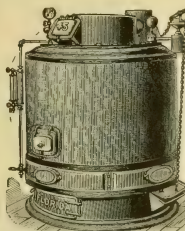


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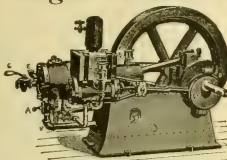
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Vol. VI.

CHICAGO AND NEW YORK, MAY 14, 1891.

No. 154.

THE AMERICAN FLORIST

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THE TORONTO CLUB has given up the idea of holding a horticultural exhibition at the time of the convention of the Society of American Florists in that city next August.

THE CENSUS bulletin shows that there are \$40,000,000 invested in greenhouses and appendances thereto in the United States. Add to this another \$10,000,000 for Canada and we have a total of \$50,000,000, in round figures, invested in the trade in America.

What One Amateur has Done.

[We publish below a letter received by Mr. John Thorpe from Mr. F. T. McFadden, the well known amateur of Cincinnati, whose beautiful place "Rosebank" is now justly celebrated. Mr. Thorpe writes that he would feel guilty were he to withhold from the readers of the FLORIST the privilege of sharing with him the pleasure of a perusal of the letter and has sent it to us for publication.]

February 11th, 1891.

DEAR MR. THORPE:—It was my plan to have been in New York long before this date, but I am still in the west. I have been building and improving facilities, growing things, and all that. I received your letter long ago and expected to have been with you to talk it out before this, and while I have been greatly pleased, in being permitted to stay and finish what I began, I have frequently wished I could be with you to discuss and settle some plant problems which proved too deep for my individual resources.

The Establishment (you will note I spell the word with a big E) out here, has taken on proportions not to speak of attractions, little expected at the outset of my venture. I feel you may be interested in knowing something of the winter garden as at present completed. You may remember our glass is located on terraces and faces the "winter sun," down a somewhat precipitous hillside. The lowest house of all I know you will be interested in, it is full of chrysanthemum "stock plants" and it is just here I want your advice: what of the novelties of 1890-91? I come to you for this information, for I know you to be "the unspeakable Turk," always foraging for now beauties. What new faces and graces do you propose to introduce and how many of my old sweethearts are to be supplanted. I warn you if the debutants be not an "iridescent dream" every one of them, keep them at home. I would like to look at the "buds" anyhow, there is no harm in that, so send them along.

But I was telling you about our houses and the principal ornament of the lower terrace is the palm house; as I looked at it this afternoon it seemed a veritable tropical jungle, with braheas, kentias, arecas, cocos, latanias, phenicophoriums, rhaps, typhospermas, seaforthias, etc., growing in luxuriant profusion with bright dracaenas, with musas in fruit and stately specimen Pandanus Veitchii in relief, with crotons in warmest colors everywhere with zamias and cycas, conspicuous in form and tints, amid the fleecy fronds of cibotiums and asplodias, with the lovely leaves of nodding alcaecias contrasting with the scarlet blooms of Anthurium Andreanum, with marantas reveling in the moisture below and hundreds of cattleyas and dendrobies in bud and flower suspended from the rafters above.

all conspired to produce the impression I received.

Terraces 2 and 3 above the palm house are the locations of the houses where we grew the chrysanthemums, which you may remember won for us the laurels we coveted at Indianapolis in '89 and Cincinnati in '90; those two structures are now filled with hybrids in boxes, a forest of buds and fine foliage. The 4th terrace is the site of our main house of hybrids; this house is cut in two by a glass partition; we took a crop from the half part of this structure for the holidays and knocked the growers in this section silly with our success in this somewhat difficult undertaking; the other half of the house is now in full bloom with "Magnas" and "Brunners," every rose an ideal rose and the foliage simply perfection. Boxes have been carried in where the Christmas hybrids grew, and so we grind them out.

On the 5th terrace stands the odontoglossum house, a long narrow refrigerator expressly constructed for these "snow line" orchids. O. Alexandrae are in bloom on the benches, dripping wet from the spray thrown from pipes arranged to supply this necessary moisture and the high back stone wall and the rafters display these plants everywhere, some making growth, some ripening, others breaking into bud and others again in full flower. Fancy the charm of this corridor in April and May when the long double line of O. citrosium, now ripening high overhead, shall send down myriads of clustering white butterflies, seemingly to sip the nectar from the peerless crispums, poised expectant below and waiting for the embrace. "If Solomon in all his glory was not arrayed like a lily of the field the angels of heaven have no vesture more ethereal than the flower of the orchid." But to take breath and come down from the realms of the angels to plain everyday "American Beauties."

The next level, No. 6, is the "Beauty" house terrace. This structure was built from plans furnished me by J. N. May and is a model in every way. Our Beauties grown here have been the finest ever seen in this corner of the country.

Terrace 8 is the site of the propagating house which is partitioned to secure two temperatures, a hot and a cold end; in the tropical half I wish I could show you a batch of Adiantum Farleyense, embracing about 100 plants, which is the most delightful of the tropical exhibits. In the cold half of the house the sand is full of rose cuttings. Late on the roses and other pebeians and parvums of the tribe of Flora will make way here for her chrysanthemum majesty whom we shall receive with true devotion of loyal subjects which we are. Terraces Nos. 9 and 10 are the sites of two more of Brother May's model "glass houses;" in

one of those we grow the divine "Mermet," whose lustrous shell-like coil it would seem had grown not in earth, but "Inguis enchanted, where the sire sings and coral reefs lie bare, where the cold sea maids rise to sun their streaming hair." The other of these is the house of "Brides," and I assure you our Brides are as "chaste as ice" and lovely beyond the power of words to picture their purity and perfections.

On terrace 11 is located a new house built over the vine border; at this particular date this particular house is the most gorgeous spectacle of the place. It is filled with cyclamens; there are 800 plants in the structure, with an average of twenty open flowers upon each plant (a great number carrying between 40 and 50 blooms) perfect in form, immense in size and dazzling beyond description in general effect. The foliage alone is a joy forever, and these 16,000 flowers, a sight one does not often see or soon forget. It is my opinion the cyclamen offers for the purposes of room decoration and as a window flowering plant, the most remarkable and lasting qualities possible to obtain. The windows of our residence have been full of them nearly all winter; not a plant has been changed since they were first brought in, yet they bloom profusely, the leaves retain that deep, rich, lively, green variegation, and they seem to grow better rather than worse, the longer we keep them amid these unnatural surroundings. I take it they will collapse some fine day, all of a heap, but the pleasure we have already received from these bright banks in our rooms, when all was snow and ice outside, has been worth a hundred fold their cost and trouble of production.

As you will no doubt want to know how our grapes are doing, I will say we started the one lone viney we have here on the first of the present month; the wood is fine and perfectly ripened, at conditions favorable and the house of ample proportions, so we expect Hamburgs, Colemans and Muscats in generous quantity from July on for six months. We hope to discuss their merits with you if you will give us the pleasure of that, promised visit next summer which you must not forget.

Terrace 12 brings us to my hobby of hobbies, it is the cypripedium house, a span structure which holds many noble specimens and embraces more than 100 species and hybrids (not to mention varieties) in the collection of some 1,200 slippers. These are only the cypripedes we grow in East India heat, the intermediate and cold sorts are in other houses. I feel I could write a book about these pets, but to be brief I counted this afternoon no less than forty species, hybrids and varieties of these in bloom and among them a plant of *albo-purpureum* in a 14-inch pot, two feet high and a yard across, with five spikes and thirteen open flowers. John Rose says he has made some figures about the value of these plants and he estimates the contents of the house, on the basis of Low's and Veitch's prices, at \$12,000. I say leave me a nice little healthy plant of each and take the lot for half the money. On this level also in addition to the cypripedium house is our glass-roofed "show room." We try to keep this particularly tidy and cold and dry for the temporary reception of plants in bloom.

The show house is filled now with *Cattleya Triane*, *Oncidium splendens* and *dendrobiums*. On this terrace also is the cattleya house, a high wide span about 85 feet long; the center bench of this

house is provided with steps built up open rails upon which the plants in pots stand while up next the glass hang the baskets as close as they will fit. The capacity of this house is about 2,000 plants (many specimens among them) and fully seven or eight hundred flowers will be doing their prettiest in the exhibition line in this house during the present month. Across a passage from the cattleya house is an L shaped lean-to with a south and east exposure; there is a high back wall, against which open rail steps have been built, extending from the walk to the top of the wall, here we grow our vandas, and here a little earlier in the season *V. cœrulea* to the number of several hundred plants were in bloom and worth a pilgrimage to look at. I feel you will agree with me that *Vanda cœrulea* meets a craving of the cultured soul, which nothing else satisfies. What is finer? Is it *Calceolaria amabilis* or is it *Odontoglossum crispum*? The open rail steps permit the great aerial roots to wander at pleasure and our vandas give evidence of the quarters being congenial to them. On the front benches of the lean-to we grow *O. vexillarium*, *O. phalenopsis*, some of the *cymbidiums*, *zygotetals*, *miltonias*, some of the *oncidiums* and suspended from the sash bars of this house, as is the case in all the orchid houses, lines of baskets, baskets and foliage and twisting epiphytal roots and flowers everywhere.

At the top of the hillside stands the "stove." Our stove has recently undergone reconstruction, and we consider it now a model in point of beauty, in proportions, cleanliness and the many devices employed for high beds, moisture, ventilation, etc. You should see in this structure the *phalenopsis* hooks and the two hundred and more pieces in the art of domesticating these capricious plants, which hang thereto. Those hooks are as sacred to these freakish customers as that on which Horace suspended his Lyre. You should see the roots that are 'browed down over the bed of coke and charcoal placed beneath the slats on which the plants grow, as one of the things to see before you die.

You should see those *phalenopsis* flowers and you will conclude there is no use in dying and going in for a better world than this mundane sphere which produces such things. I don't know anything about the other, but there is certainly nothing to equal or approach these tints, graces, dainty waves and all beauty that the mind can hold, in this lower world. Here are also in this house our arides in some twenty species; angraecum, a dozen species, *calanthes*, *scacelabiums* and the usual stove plants.

Our houses here are as a rule "three quarter spans," and built and located as they are, each house a few feet lower than that which precedes it, no shade is cast; we get all the light and sun heat possible to supplement the artificial article and as they stand east and west, facing the south, they are comfortably situated for winter work. Along the east ends runs a range of flat built structures, roomy, warm, well lighted and ventilated for potting purposes, etc. Here is the office, packing room (with cold cellar below for cut flowers); here are also the men's quarters piled for heat in winter and supplied with hot and cold water and every convenience. On the west of the "glass" is a wide passageway, also affording covered communication with all the houses; this covered way can be thrown open in summer and in winter closed from the elements, yet well lighted and dry. The es-

tablishment is heated with Hitching's wrought iron boilers, 2-inch wrought pipes being used throughout. The heating system is hot water under pressure, the pressure at the boilers being about 45 pounds. The area of glass is twenty-six thousand feet. Two steam pumps and a wind engine supply water to the tanks, pumped from cisterns, of which we have a generous supply and from a never failing spring. Rain water is exclusively used for our orchids.

I write you all this because you do not laugh at me and enquire why I have not been content to do a little instead of so much, as many of my friends do, in view of my motives and inspirations in this enterprise being purely those of the amateur. I usually make no reply to these questions, but I will tell you, I wanted to do what I undertook thoroughly and well and my pursuit of the botanical will-o'-the-wisp has given me the greatest personal pleasure in life.

Faithfully yours, F. T. McFADDEN.

Those Drawing Rooms.

The illustrations very faithfully portray the two rooms and it is with a great deal of pleasure I discuss them. It is a notorious fact that in nearly all floral decorations of whatever kind the object seems to be to crowd and crowd and crowd as much material as possible into the very smallest space and how often with disastrous result! Does it not ever occur to decorators that it is art and not material that makes decorators? On the Angelus picture there is probably not a pound and a half of paint. How many hundred tons of paint could be bought—if paint made the picture—with the money the Angelus would bring at public sale.

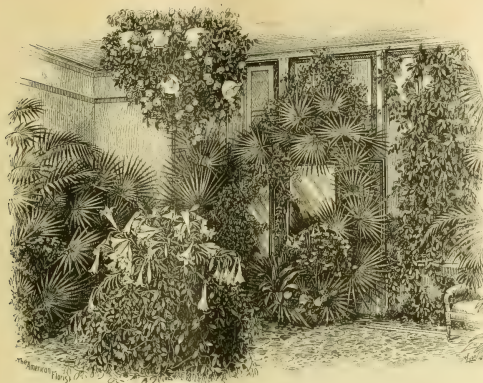
Returning now to the drawing room decorations Mr. A. Warendorf was awarded first and Mr. G. Stumpff second. The awards were made by a committee of ladies. A protest was entered and the awards were reviewed and confirmed by a committee of gentlemen, Messrs. G. T. N. Cottam, G. S. Rand and Lawrence with this note: "Simplicity and taste in arrangement, against inharmonious and crowded contrast."

In analyzing the plants in number and actual value there is no doubt about Mr. Stumpff's collection being the largest and of greater value by more than half, but that proves there was too much paint. In the center of Mr. Stumpff's room was a superb plant of a bright rose pink azalea, 4x4 feet, but it was so intrusive that it appeared to be the only feature of the drawing room. In drawing rooms there should be room for pictures, furniture and guests; flowers and plants should be the least obtrusive; this azalea was the most obtrusive. The mantel piece proper, the sides of the mantel and the fireplace were elegant, but the crowning to the pier glass above the mantel was packed and packed.

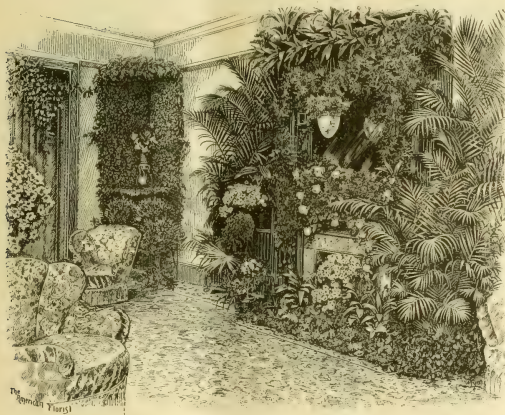
The pansy panels in the corner were excellently wrought and showed great skill, but the walls and the ceiling and the carpet did not fit the purple and gold of this fine piece—in other words the panels did not fit the permanent decorations of the room, which should always be considered; I mean the permanent decorations should be considered.

The groups in the corners were in good taste, rather crowded perhaps, but if the beautiful azalea had been placed in the left hand corner of the room it would have been in a much better position.

Mr. Warendorf's decoration was a piece



FIRST PRIZE DECORATION—BY WARENDORF.



SECOND PRIZE DECORATION—BY STUMPP.

DRAWING-ROOM DECORATIONS AT THE NEW YORK SHOW

of simplicity. The arrangement of his palms could not have been improved upon. He had not as good a room as Mr. Stumpp had; he had no mantel to decorate.

In the extreme left hand corner was a settee across which he wove an arab gracefully cosy and retiring. Arcuate lutescens, a few kentias and latanias composed it. Midway the right and starting from the wall was a crescent of palms composed of the same kinds as was his arab.

The drapings of the walls and chandeliers was of southern smilax, expressive, massive, yet elegant. In the center of the room was a large group of Harrisii lilies,

cut. The color was O. K., but the odor was very oppressive. This was a weak point.

To cover up the nakedness of the palms in pots Mr. Warendorf used cut leaves of chamaerops palm. This was a mistake. A few ferns would have been in a great deal better taste because one does not expect to find palms in a cellar or water lilies in a garret.

All these points should be considered in close competitions because it is right. Ignore impossible conventionalities. Let us always remember that "the art itself is nature."

I feel assured that these drawing room

decorations will do good. The best decoration was Mr. Warendorf's. The best collection of plants was Mr. Stumpp's.

In this criticism there is naught extenuate or set down in malice.

JOHN THORPE.

Favorable Decision on Imported Roses.

LIVE PLANTS—ROSE, CLEMATIS AND MANETTI STOCKS.

Before the U. S. General Appraisers at New York, April 9, 1891.

The matter of the protest, 4017, of Geo. Moulson & Son, against the decision of the collector of customs at Rochester, N. Y., as to the rates and amount of duties chargeable on certain live plants, rose, clematis and manetti stocks, imported 3d per cent, December 23, 1890.

Opinion by SHARRETT'S, General Appraiser.

The merchandise consists of live plants of the varieties known as dwarf roses and manetti stocks upon which duty was assessed at 20 per cent ad valorem, under paragraph 282, act of October 3, 1890. The appellants, who are proprietors of the Union Nurseries, Rochester, N. Y., claim that these plants should have been admitted free under paragraph 666 of said act. At the request of a large number of persons and firms directly interested, we have further considered the question of the proper classification of plants the kind covered by the Board's decision of January 26, 1891 (G. A. 273), which includes the varieties upon appeal, and have sought information from prominent nurserymen, florists and seedsmen doing business in different sections of the country as to whether or not plants of the kinds specified are chiefly used for forcing under glass for cut flowers or decorative purposes. From the replies received and testimony of witnesses who appeared before us, we find the following facts:

Clematis plants are to some extent imported and used for forcing under glass for decorative purposes at Easter time. This use, however, is exceptional. They are more generally employed in out-of-door cultivation. We therefore adhere to our former ruling relative thereto.

Manetti stocks are the stocks of the wild rose plants of southern France. They are never grown under glass for the flowers they bear, but are intended to have other varieties of roses grafted or budded upon them. They are recognized as nursery stock and are chiefly grown in the open air. The claim of the importers is rejected as to this portion of the merchandise.

Rose plants are largely grown both under glass and in open grounds. Many varieties when imported by nurserymen are kept in open ground or in cold storage pits to be sold in a dormant state. Florists importing the same varieties grow them under glass, while by other dealers they are imported and sold at auction, in which case their subsequent use is merely a matter of conjecture. To attempt to classify each plant in accordance with the specific use to which it is to be applied is impracticable and would result in unjust discriminations. As heretofore held by us, the chief use of imported plants controls their classification. While the evidence as to the chief use of rose plants is somewhat conflicting, we find from the preponderance of testimony before us that the larger portion of the varieties imported are used for forcing under glass for cut flowers or for decorative purposes. The claim of the appellants is therefore sustained as to the rose plants, and G. A. 273 is modified in accordance with this ruling.



The "Divine Flower."

Says Mr. J. Douglas in the London Gardeners' Magazine:

"It is pleasant for us who have admired the carnation for a life-time to see the interest now taken in it, both as a hardy garden flower and a plant that will with careful culture produce its sweetly scented blossoms all the year round. When the southern section of the National Carnation and Picotee Society was started in 1875, florists' flowers, including the carnation, were not much cared for; now they are cultivated in every garden, and information is constantly and eagerly sought for concerning the best means of culture. Not very long ago the botanist and the florist were supposed to be antagonistic to each other, but conferences and the gardening press have broken down the wall of separation between them, and we feel the botanists to be men of like feelings and having much the same tastes as ourselves. Most of us have spent days of unalloyed pleasure in tramping for miles over moorland and among country lanes searching for rare botanical specimens, but it does not follow that we should turn away from a bed of carnations in bloom. The *Dianthus caryophyllus* of the botanist would be a lucky find. It has probably been naturalized and may not be, strictly speaking, a native plant. It is found generally upon old walls and ruins. Curtis went out of his way to figure a beautiful bizarre carnation in the second volume of the *Botanical Magazine*, 1788, and he therein informs us that the *Dianthus caryophyllus* or 'Wild Clove' may be found, if not in its wild state, at least single, on the walls of Rochester Castle, where it has been long known to flourish, and where it produces two varieties in point of color, the pale and the deep red.

"If we search among the books of the old herbalists we find that the carnation is a good old English flower. The Double Clove was grown by Gerard in 1597, and the same famous gardener and botanist was the first to cultivate the yellow carnation, which he obtained from Poland through a London merchant named 'Master Nicholas Lete.' In 1629 Parkinson cultivated quite a collection of double carnations, some of them so very double as to bother him by bursting their pods (calyx). As a further evidence of the antiquity of the carnation even in Parkinson's time, he writes of the 'Great Harwich or old English carnation, a good flower worthy of a prime place.' Parkinson's quaint and precise descriptions are very amusing, but it would be unwise to propose to quote them except to recognize the fact that the yellow carnation was then cultivated in variety and that streaked flowers were also grown. Not until Miller's time, a hundred years later, do we find a proper standard of excellence set up to guide raisers of seedlings. It is not the same exactly as that determined upon by the late Mr. Richard Headley and a committee of florists in 1834, but it is a very good ideal to work up to, and as the date of Miller's work is 1733, it gives us the best idea of the position of the plant in the English gardens.

"He says the florists divide the carna-

tion or Clove gilliflower into four classes. 'The first they call flakes; these are of two colors only and their stripes are large, going quite through the leaves (petals)'. The second are called bizars; these have flowers striped or variegated with three or four different colors. The third are called Piquettes; these flowers have always a white ground, and are spotted (or pounced as they call it) with scarlet, red, purple and other colors. The fourth are called Painted Ladies; these have their petals of a red or purple color on the upper side, and are white underneath.' The names of the different varieties were very numerous in Miller's time, and he thought it useless to give them.

"The following are the properties given by Miller:—(1) The stem should be strong and able to support the weight of the flower without hanging down. (2) The petals of the flower should be long, broad and stiff, and pretty easy to expand, or (as the florists term them) should be free flowers. (3) The middle pod of the flower should not advance too far above the other part of 'blower' (flower?). (4) The colors should be bright and equally marked all over the flower. (5) The flower should be very full of petals, so as to render it, when blown, very thick and high in the middle, and the outside perfectly round. It will be interesting to florists to read the above from Miller, who was a predecessor of the late Mr. Thomas Moore, in the Chelsea Botanic Gardens, also like Miller, designated a 'mere botanist.' Miller also gives the most careful cultural details, which differ but little from the method pursued in our own gardens now."

The above contains some very interesting and valuable information and it comes at a time when many of us are turning our thoughts in the direction of the Divine Flower.

It will be seen that the standard of excellence was equally as high, with some variations, a century and a half ago as it is to-day. It is understood of course that in those days carnations for winter blooming were not used to any great extent, but as it is conceded that the carnation as we find it in America is a product from the 'Clove Gilliflower' of our fathers, the facts recorded come home to us with equally as much force as they were.

To the extremely practical florist, as we find him, it may not seem necessary to link the horticulture of the past to that of the present, yet there will be found none to dispute the fact that it is a benefit to the rising and active generation, to absorb as much horticultural history as possible, by which means we are led on to that higher education for which so many of us have been longing.

In 1629 Parkinson cultivated quite a collection of double carnations, some of them so very double as to bother him by bursting their pods" (calyx).

That's interesting. We have not yet bred out that tendency, up to the year 1891.

The question comes up: has any intelligent and well directed effort been made in that direction? We can with confidence say, certainly there has, but the results have not been what we can call entirely satisfactory.

Length, breadth and substance of petal and nicely disposed is what the breeder must keep in his mind's eye if he would attain to the Beau Ideal in the carnation. It is the number and not the size of the petals which is the cause of the bursting of the calyx.

EDWIN LONSDALE.

Spring Flowers—May 4.

The B. A. Elliott Co. are doing a very good trade in hardy herbaceous plants. The collection is replete with meritorious species and varieties. We shall soon find out that there will be a great run in all hardy plants.

When I was there the other day I jotted down the following as being in flower; surely those who love flowers would appreciate these harbingers:

Anemone Pennsylvania and *triloba* with their exquisite blush, white, pink and lavender shades.

Alyssum saxatile compacta—large masses of pure golden flowers.

Aubretia purpurea, violet purple; deltoidea, larger than the preceding, covering stones on hilly banks.

Dicentras canadensis, cucullaria, spectabilis, all worthy and should be in all collections.

Doronicum Plantagineum excelsum, deep yellow, a valuable plant, hardy as a peltain, covered entirely with sunflower-like flowers 2½ inches across.

Funkia pinnatifida, for its foliage, handsome and effective.

Hencher sanguinea. This plant is perfectly hardy and its bright red spikes are very pretty, a valuable addition.

Iberis sempervirens, *Corca* and *gibraltarica* in large snowy white patches.

Lysimachia nummularia for its pure golden foliage at this season is a gem.

Myosotis dissitiflora with its bluest flowers.

Primroses and *polyanthus*; some few marked forms of the latter and a colony of English primroses, besides the Japanese *Sieboldii*.

Sanguinaria canadensis, just past, but its distinct foliage is always interesting.

Trillium in immense quantities; how lovely these wood lilies are!

Veronica gentianoides, a gem in its opaque white dress.

The exquisitely blue *Mertensia virginica* in large masses.

Viola, a dozen species, and as many more varieties.

Iris in variety, reticulata and siberica, the beginning of an army that will appear in great array in a week or two; these are as handsome as orchids.

Pæonia tenuifolia plena and *anemone-flora* were bright and effective.

Native *cypripediums*, *acaulis*, *parviflorum* and *pubescens*, in cozy nooks were in bloom.

Palustris mollis and *maculata*, blue and lavender.

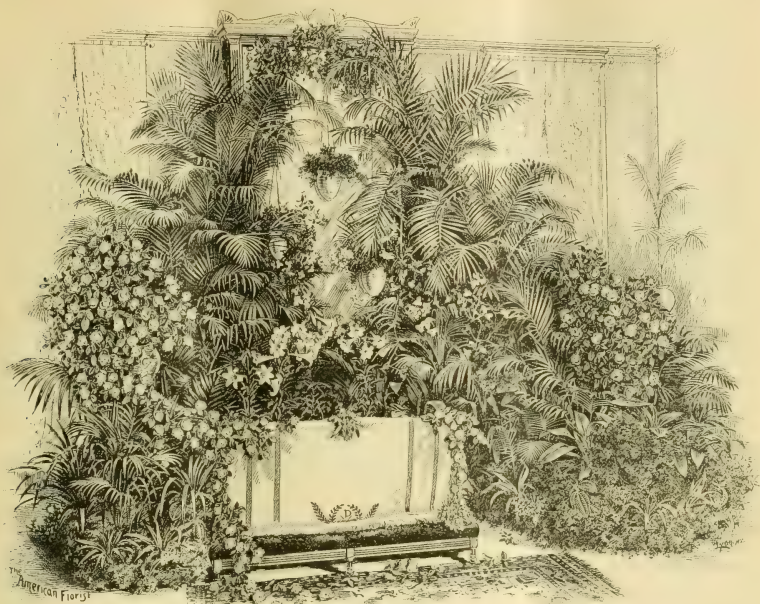
Phloxes, a glorious lot of these, some 20 kinds, including setacea on banks and mounds.

JOHN THORPE.

Wedding Decoration at N. Y. Show.

A wedding bower—that is what I thought this beautiful design was. The background was a mirror which added greatly to the effect. Kentias and arecas reached up to the ceiling (which was 16 feet high) forming a symposium of graceful foliage as outlines to the bower. Large vases of cut pink roses on either side gave an expression of color to the delicate green of the palms and ferns. Standing at the back of all, on the floor, were finely flowered *Lilium Harrisii*. In front of the bower was erected an altar rail covered with fine tapestry, in front of which was a kneeling place for the bride and bridesroom. Sundry ferns, pandanus and dracaenas were used in the filling in and rounding up of the outlines. The general opinion of this design was that it was a No. 1. Mr. Stump was the winner.

JOHN THORPE.



FIRST PRIZE WEDDING DECORATION AT THE RECENT EXHIBITION OF THE NEW YORK FLORISTS CLUB

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XXVII.

LAW TALK FOR A SICK MAN.

Not feeling very well this morning, eh? Why, I imagined that men who followed the calling of grandfather Adam were never out of sorts. The open air, the active life, the contact with nature ought to make your calling a cure for at least one half the ills of the flesh. Well, as you are feeling somewhat wilted suppose I water your spirits with a spray of legal advice. Nothing like the hair of the dog for his bite you know. However, I promise you not to be too depressing in my chat.

Let me commence by assuring you that the law keeps its eye upon the sick man, and will not permit him to be harried. For instance, upon the affidavit of your physician it will excuse you from attending as a witness and if need be it will send a commission to your bedside and take your testimony. So, too, contracts to do such things as sing, dance, play, paint, will not carry damages against a man who falls sick unless, of course, there be a clause that damages shall be paid in any event of failure to perform the contract.

But with you it would be different; because you fall sick to-day would not

excuse you from a covenant to furnish one thousand long stem roses or one thousand feet of garlands for the decoration of a ball room. You may delegate such a task which a portrait painter or opera singer can't do.

Nor does the law require a sick man—a paralytic to sign a will or contract, he may merely lay his fingers on the pen while some one else writes the name.

You must not expect the law to take a sentimental view of things. The death of your wife or of an only child would not be a sufficient excuse to set aside a judgment taken by default.

Or we'll suppose your principal witness is attacked with softening of the brain and mixes up dates so as to destroy the effect of his testimony. You may, if you can, correct his errors by other witnesses, but the law will not display any leniency in a civil matter. It is only in criminal cases that a judge sometimes inclines to mercy, the statute gives him a wide range of discretion, and he has a right to take advantage of it.

If a man became dangerously ill, that is, is brought face to face with death, then the law lays great importance upon his utterances, for it is quite natural to suppose that unless a man is constitutionally incapable of telling the truth he will be moved to state things as they are when he is brought face to face with death. There is no longer any reason for his distorting facts. His day is over and

he feels the chill breath of death on his leaves and the keen edge of the fatal scythe set against the stalk of the plant of life.

Now another peculiar notion the law has about death. It is this: If a well man makes you a present and delivers the article he can't take it back again. It becomes your property absolutely. But suppose you to-day should get an idea that you were going to die and should with that notion in your head give me that splendid century plant which you value so highly. But next week you have scraped your liver, watered your fever parched system with cooling draughts and let the sunlight of cheerfulness into your dark and cheerless heart, in other words you get well. In that event your gift would amount to nothing. The century plant would go back to you again.

The law is really very kind to a dead man—it makes a will for him, protects his remains from indignity, takes the guardianship of his minor children, makes his decent burial the first debt to be paid, holds his burial plot sacred from all creditors and gives him usually seven years to come to life again, provided there be no actual proof of his death, that is a mere disappearance. This period, however, varies in different states, in some it is only five.

Nor will the law allow a man's death to prove an injury to the living. By

FLORICULTURE IN THE UNITED STATES.

The accompanying statistics are compiled from the census bulletin recently issued, and are given as supplemental to the synopsis published in last week's issue. We believe that every one of our readers will find the figures very interesting.

DIVISIONS AND STATES.	No of Florists' Establishments.	Square Feet of Glass.	Value of Establishments.	Plant Sales.	Cut Flower Sales.
The United States.....	4,659	38,823,247	\$38,355,722.43	\$12,036,477.76	\$14,175,328.01
North Atlantic division.....	2,448	21,566,540	23,195,051.67	5,972,211.97	8,323,006.03
Maine.....	45	211,050	183,613.50	48,899.60	47,167.80
New Hampshire.....	42	182,952	162,827.28	52,049.76	69,364.68
Vermont.....	29	126,692	108,955.12	33,170.93	21,720.93
Massachusetts.....	407	2,717,946	2,663,587.08	594,053.13	1,036,409.22
Rhode Island.....	102	549,984	526,507.68	132,786.66	133,717.92
Connecticut.....	120	1,060,920	986,655.60	202,222.70	228,889.20
New York.....	793	6,947,298	9,254,873.03	2,228,720.93	3,615,667.64
New Jersey.....	366	3,703,554	3,666,518.46	897,908.58	1,288,478.56
Pennsylvania.....	544	6,066,144	5,641,513.92	1,782,399.68	1,881,590.08
South Atlantic division.....	293	2,219,134	1,907,571.98	602,646.04	753,313.50
Maryland.....	102	872,304	758,904.48	33,408.46	13,028.68
Delaware.....	19	120,243	99,750.00	233,686.30	265,175.74
District of Columbia.....	35	649,310	571,392.80	181,718.10	348,833.45
Virginia.....	48	281,904	236,707.84	37,714.08	79,273.44
West Virginia.....	19	88,255	72,369.10	23,275.00	6,016.55
North Carolina.....	16	28,000	22,123.00	10,827.52	1,800.00
South Carolina.....	20	60,000	49,800.00	24,750.00	14,000.00
Georgia.....	26	99,918	81,932.76	37,266.58	18,885.64
Florida.....	8	19,200	14,592.00	20,000.00	6,800.00
North Central division.....	1,466	11,405,032	10,363,356.70	2,961,672.10	4,106,760.33
Ohio.....	393	2,785,192	2,590,228.56	1,051,058.85	586,278.55
Indiana.....	107	899,540	782,607.63	276,909.58	184,647.76
Illinois.....	330	3,236,750	2,945,442.50	605,796.40	1,888,722.60
Michigan.....	167	1,293,443	1,165,484.65	189,872.32	350,432.80
Wisconsin.....	105	464,520	450,584.40	101,952.20	200,711.45
Minnesota.....	51	408,612	388,181.40	96,823.50	205,672.80
Iowa.....	69	476,583	424,158.87	123,164.55	107,633.79
Missouri.....	141	1,240,995	1,078,829.65	374,123.48	496,267.94
North Dakota.....	4	7,000	6,140.00	2,000.00	2,200.00
South Dakota.....	3	8,500	7,700.00	4,300.00	2,100.00
Nebraska.....	38	401,464	349,273.68	97,897.56	64,388.48
Kansas.....	58	183,324	174,372.36	35,773.66	17,604.16
South Central division.....	212	2,464,213	1,887,581.65	766,397.65	660,604.54
Kentucky.....	81	1,163,241	918,960.39	297,959.31	315,448.02
Tennessee.....	32	411,840	313,198.40	135,890.88	153,371.20
Alabama.....	14	56,700	46,494.00	28,519.96	13,288.10
Mississippi.....	9	13,950	7,672.50	9,000.00	1,800.00
Louisiana.....	50	742,050	549,117.00	242,777.50	165,553.50
Texas.....	16	29,232	21,339.36	31,000.00	8,266.72
Arkansas.....	10	47,200	30,800.00	21,250.00	2,875.00
Western division.....	240	1,168,328	1,002,160.43	1,733,550.00	231,643.61
Montana.....	6	22,000	21,120.00	1,200.00	3,000.00
Wyoming.....	3	7,100	6,319.00	7,500.00	7,500.00
Colorado.....	33	345,543	321,354.99	120,116.70	137,579.97
New Mexico and Arizona.....	3	2,200	950.00	5,075.00	175.00
Utah.....	7	24,425	13,678.00	4,025.00	7,700.00
Washington.....	14	37,350	29,506.50	16,930.00	5,460.00
Oregon.....	24	119,088	102,415.68	29,820.00	20,228.64
California.....	150	610,622	506,816.26	1,548,883.30	150,000.00

which I mean: when the witness to a will dies you need only prove his signature. A man's death ends a partnership at the instant, so it makes a widow and frees the woman from all duty to bid a wee before taking another husband.

But on the other hand the law is very careful to insist upon the best proof of a man's death. No man may lawfully be consigned to the grave until the attending physician makes oath as to the nature of the malady, etc., and the law officer of the county or city has the right to order an inquest if there should be anything suspicious about the last sickness and death.

If a man and wife perish together the law will presume that the woman died first, so as to fix property rights.

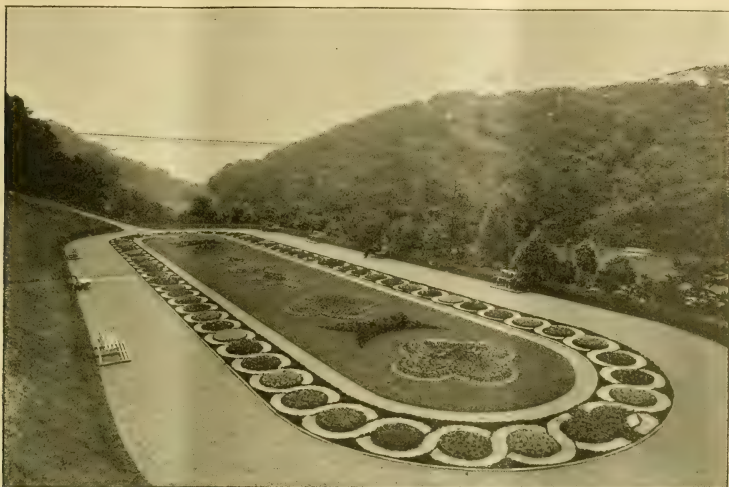
The law too by statutory enactment makes it incumbent upon us to take care of our sick relatives, and not to throw them upon the county for support. Nor may any voodoo doctor, faith cure practitioner or prayer doctor practice his or her peculiar system on a sick person. In case of death it would be manslaughter.

In fact, although people don't always think so, the law is very jealous of human life and makes water, light and air absolutely free. True, when you build that half mile of trench to water your nursery your neighbor had no right to use the water. But speaking of running water in brooks, streams, etc., that is free as the air. It would be no larceny for children or a tramp to enter your yard and drink from your well, although it

might be trespass. And speaking of light, while you may not shut out the light from my front or rear windows, yet if our lots adjoin you would have the right to build a story higher and cut off my side windows.

Feel better already do you? Glad to hear it. Nothing like a little cheerful conversation when a man feels depressed.

Now there is a moral, a business moral to this chat of a garrulous old lawyer and it is this: Life is uncertain, it's a plant that needs constant care and often calls for a forcing frame. On the other hand death is as uncertain as the weather. A frost or a drought may strike you any moment. Therefore keep your earthly accounts always well written up. Know where you stand. Don't merely enter up



ITALIAN FLOWER GARDENS, SALTSBURN-BY-SEA ENGLAND.

credits and flatter yourself that you are well to do, when an expert accountant would show you to be worse off than nothing in fifteen minutes. Look out for that liver of yours. Hope to find you better to-morrow.

UNCLE BLACKSTONE.

Boston.

There is a fair supply of roses and carnations in the cut flower market; white stocks are very abundant, but sell poorly. Among the novelties which seem to be in good demand are quantities of the beautiful "Blanche Ferry" sweet pea and the Cape violets. This Cape violet comes from Cape Cod and is apparently nothing more than the double English violet grown in a very favorable soil and location. It is perfectly hardy on the Cape and is used largely in borders. It is very dark in color, very double and deliciously fragrant and blooms profusely.

Hydrangea plants are abundant in the flower stores and auction rooms and are of unusually good quality.

Another plant auction establishment has just been started, making three in the city, all selling on the same days, Wednesday and Saturday. As they are quite widely separated from each other the buyer who would like to patronize all three will have a good opportunity to exercise his legs.

The tulip beds in the Public Garden are looking very attractive just now, and Mr. Doogue is busy planting the pansies which are to take the place of the tulips as soon as the latter are out of bloom. To those who prefer decorations of a less formal character the dells and slopes of the Back Bay Park are beginning to present a charming picture with masses of flowering shrubs, ground phloxes and violets.

The severe frosts a week ago did much

damage to early flowers and foliage in many localities in this section, magnolias, dicentras, etc. being completely spoiled.

The old Granary Burying Ground on Tremont street, where so many famous men of the last century are laid away, is undergoing a thorough overhauling. The overcrowded and in many cases half dead trees are being thinned out, borders replanted and the soil enriched and prepared for new turf.

The stock of Alexander Whittet at Lowell, who failed recently, was sold at auction on May 8. Among the assets of M. Doherty, of Brockton, which went off under the auctioneer's hammer last Tuesday was a horse, harness and wagon, which is said to have been knocked down for the princely sum of \$1.60.

In the last number of the AMERICAN FLORIST it is stated that Mr. E. V. Low had sailed from New York for England. Mr. Low sailed from Boston on the Cephalonia on May 2, and the rare cypripedium accompanied him. New York must not claim too much.

Among our recent visitors from abroad was Mr. Fred Benary. Mr. Benary went to see the pansies at Zirngiebel's, which were a surprise to him and were, he said, ahead of any he had ever seen in Germany. Mr. Bodington, representing Pitcher & Manda, and Mr. Dimmock, representing F. Sander & Co., have both favored the Hub with a business trip recently and are said to have struck some good orders.

Information from Chicago regarding the prospects of the appointment of inexperienced parties to take charge of the Horticultural Department of the World's Fair has caused considerable excitement in horticultural circles about Boston and many protests in the form of letters and telegrams have been forwarded to Chicago by leading men of the Mass. Horticultural Society, the Society of American

Florists and the Gardeners' and Florists' Club.

At the last meeting of the G. and F. Club the usual committee was appointed to make arrangements for the annual harbor excursion of the club, which will occur some time in July.

The May exhibition of the Mass. Horticultural Society was held on Saturday, 9th inst. The display of calceolarias from Dr. C. G. Weld, A. W. Spencer and Jos. R. White was very attractive and well filled the center of the hall. There was quite a good show of tulips, narcissus and other hardy spring flowering bulbs from the Bussey Institution, Dr. C. G. Weld and others. Jackson Dawson showed an interesting collection of flowering shrubs, and from the Harvard Botanic Garden came a superb collection of hardy herbaceous flowers comprising about seventy-five varieties and being doubly instructive from the systematic manner in which each one was plainly labelled.

The displays of wild flowers from Mrs. P. D. Richards and Mr. E. H. Hitchings were as usual a most attractive feature of the show. Magnificent collections of pansies were shown by Jos. S. Fay, D. Zirngiebel and I. E. Cushman. Rea Bros. were awarded a silver medal for *Spiraea astilboides* and *Astilbe Japonica grandiflora*.

W. J. S.

New York.

Prices of roses have increased owing to the falling off of the supply.

Outdoor flowers still continue very plentiful and cheap with the exception of peonies, which are selling at a good figure.

In Mr. Thorpe's notes on the illustration of the first prize corsage bouquets and boutonnières at the recent show he

refers to it as the Horan prize. This is a mistake and as a matter of course should be corrected, as this cup was offered by Mr. W. S. Allen.

The cup offered by Mr. Horan was for the best two bridal bouquets, and was also won by Mr. Merritt.

JOHN YOUNG.

Philadelphia.

One of the finest store decorations ever made in this country was to be seen at John Wanamaker's grand depot in this city last week. The annual spring opening at Wanamaker's is a grand affair and the store on these occasions has always been elaborately decorated, but this season all previous efforts have been eclipsed.

On entering the arcade from Chestnut street, the main entrance, the effect was beautiful. On an elevated staging, extending upward from a point about ten feet above the aisle to the next floor was arranged a bank of roses in 6 to 8-inch pots; 500 plants at least were used in this group, all in full flower; the background was formed with large palms.

The main aisle of the store extending from Chestnut to Market street is five hundred feet long and on the ends of the counters facing this avenue the plants were arranged in pyramids of solid colors extending the entire length of the store and connecting each group over the intervening aisles was a series of arches about two feet in width lined with palms, hydrangeas and other blooming plants. The pyramids were 10 feet wide rising to a point about 8 feet high.

The first group was composed of pelargoniums opposite which was a like arrangement of pot roses; next white geraniums; opposite group a beautiful bank of gladioli and *Cypripedium Lawrenceanum*; next counter pink azaleas; opposite pink hydrangeas; next by a stairway a bank of 200 pink geraniums.

Here a large cross avenue divides the store, an opening extends to large skylights in the roof and as all floors are open to this space the view is beautiful.

On the tops of large cases skirting the aisle was arranged on the one side a large group of blue hydrangeas and opposite a similar one of pink, continuing along the main aisle the first pyramid was of callas; opposite a bank of *Lilium Harrisii*; next two banks of roses, and then white geraniums and white stocks; opposite scarlet geraniums, a group of pink opposite; blue hydrangeas followed, then scarlet and pink geraniums; next two banks of roses, two groups of daisies followed, then a bank of roses; opposite, geraniums; the next was gentians, opposite, hydrangeas, then azaleas and rhododendrons; opposite, geraniums.

We have now reached the Market street entrance where we find a large group of hydrangeas opposite a similar bank of roses.

The smallest plants used were geraniums in 4-inch pots, all others were in 6-inch or over, and in many cases were in double rows, one pot on another so as to make the mass of color.

From 7,000 to 8,000 plants were used and this means that much profit to the trade, as with the exception of the palms they were not fit for much but the rubbish heap at the end of the week. There were used among other plants 700 hydrangeas, 1,200 geraniums, 1,000 pot roses. Habermehl & Brother had charge of the decorations and a great deal of credit is due them for the beautiful way in which everything was arranged.

Trade has been fairly good on this season and most florists are satisfied. T.

St. Louis.

The public library of St. Louis contains the following books of interest to botanists and horticulturists:

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The New York Show.

Who are the best judges of floral art? When a person makes a design for exhibition he does not try to copy work he has already done, but makes an effort to exceed all former creations and consequently tries to elevate his art. What are exhibitions for? Do people go there expecting to see everyday work, or has the art of arranging flowers arrived at the zenith of its glory?

The selection of judges at exhibitions is a very important matter and I hope that the discussion begun in a late issue of the FLORIST will be full and complete.

Referring to the exhibition of the New

York Club, in my opinion the judges should have been selected from among out-of-town florists (similar to the judges of growers' exhibits) whose judgment should have been given unaccompanied by any one and before the show was open. I believe also that a mistake was made in giving an exhibitor the same number all through as was done in this case.

Regarding the table decorations criticised in your last issue the critic forgot to mention that the competitors could not see their tables until their designs were made, that those tables were ordinary restaurant tables. Was a long table 8 feet by 4 the proper one to furnish? Is this the proper size for a seating of twelve? It only goes to show a prelude to the after circumstance. The competitors came there with furnishings for twelve. All the service with the exception of a plate and a few glasses had to be left off. Regarding the height of flowers on tables that is a matter depending upon circumstances. Would Mr. Thorpe like to see his fine chrysanthemums cut off six inches long and massed together? The flower is robbed of half its beauty when cut too short. Now let us take Mrs. Astor's table, which is always decorated with hybrid roses that stand 2½ feet high when arranged. W. K. Vanderbilt uses American Beauties three and four feet high; Cornelius Vanderbilt, W. C. Whitney and others have their tables decorated with roses in a natural arrangement. Although a low effect is desirable yet every one does not want it.

The corsages exhibited by Mr. Hodgson were very pretty, but more like ball favors or loose bunches; they were too large for corsages. And again has any one ever seen or is likely to see ribbons worn on corsage bouquets in the street or in the theater? I hope all this discussion about our show will benefit others in the future. AN EXHIBITOR.

Society of American Florists.

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The Nomenclature Committee will meet in session at the Queens Hotel, Toronto, at 11 A. M. on the day before the S. A. F. convention takes place in that city next August.

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Orders for less than one-half inch space not accepted.
 Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 2-8, New York.—Chrysanthemum show Madison Square Garden.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 3-6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society.

November 10-12, Pittsburg.—Chrysanthemum show Pittsburg and Allegheny Florists' and Gardeners' Club.

November 10-12, Newport, R.I.—Chrysanthemum exhibition Newport Horticultural Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society.

November 11-13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society.

November —, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore.

November —, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society.

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

IN ORDER to bring the various florists' clubs and societies into closer relations we suggest that each club appoint or elect one or two delegates to represent it in a conference to be held at Toronto next August during the annual session of the Society of American Florists. The meeting should be held away from the sessions of the national society. A club room in some hotel would be large enough. There let the delegates come together and discuss ways and means of stimulating interest in and broadening the influence of the clubs. A general exchange of views and experiences would be of decided mutual benefit. And a condensed report of the discussion might be read at a subsequent session of the national society with profit. How would it do for the Toronto club to issue a call for such a meeting?

CHRYSANTHEMUM Culture for America, by James Morthon, has been issued by the Rural Publishing Company, New York. Much valuable information regarding the "Queen of Autumn" is brought together in this book and it will prove very acceptable to American growers of the chrysanthemum. A lengthy list of synonyms is given which we hope will stand the test of criticism, though we fear some will be called in question. It is to be regretted that the titles under the illustrations were not more carefully read by the proof reader, and when a name is given in one part of the book as a synonym it is rather disheartening to find it used as the proper name in another part. In a book of this kind every possible care should be exercised to have it free from such imperfections.

A COPY of the printed programme for the sixteenth annual meeting of the American Association of Nurserymen, which will be held at Minneapolis, Minn., June 3 to 5, has been received. The programme covers a wide range of subjects, the speakers being all limited to ten minutes for full and complete discussions, which we are glad to see thus recognized as the most valuable feature of the convention. The headquarters will be at the West Hotel. A reduced rate of one and one third fare for the round trip has been secured from the railroads. There will be the usual trade exhibition. Copies of the programme may be had on application to Charles A. Green, secretary, Rochester, N. Y.

HOW MANY florists obtain receipts from customers for goods delivered on order? If you are one who do not, would not the addition of the practice to your business methods do much to prevent disputes, resulting possibly in the loss of a customer? We believe that every business man should secure and preserve receipts for goods delivered; and with such goods as cut flowers and floral arrangements where the time of delivery is of such importance the recipient should be asked to note the hour of the delivery on the receipt, in a blank space provided for that purpose.

THE APPOINTMENT of Mr. Walter S. Maxwell for chief of the Horticultural Department of the World Columbian Exposition was not confirmed by the local directory at the meeting last Friday. So many protests against a confirmation of the appointment had been received by the board that a committee of three was appointed to investigate the matter of Mr. Maxwell's fitness for the position. The committee is to report at

the next meeting of the board and definite action is deferred until that time.

THE CATALOGUE TRADE in plants is also covered in the census bulletin from which we quoted in last issue. During the census year there were issued 3,425,600 wholesale and 17,630,094 retail catalogues. The firms issuing them paid for postage \$767,438.21, for advertising \$1,161,168.31; for freight \$534,221.86; for express \$554,390.55; and the estimated freight and express bills on outgoing shipments was \$1,086,904.60.

GREAT CREDIT is due to Mr. J. H. Hale, South Glanstonbury, Conn., special agent for floriculture in the U. S. census, for the completeness of the statistics regarding the trade as shown in the preliminary bulletin from which we have freely quoted in this issue and that of last week. He has certainly spared no effort to make his report full and complete.

YOU can give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

ASTORIA, N. Y.—John Dean, the 14 year old son of David Dean, the florist, was struck in the chest by a base ball while playing with some companions, and sustained an internal injury which resulted in his death.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By single man (German) as general grower or to take charge of houses. Address FLORIST, 1201 State, New York City.

SITUATION WANTED—By lady who has had some experience as a single florist to assist in cut flower work for city trade. Address HOPEFUL, care American Florist, Chicago.

SITUATION WANTED—By young man of good sober habits, good potter and fair knowledge of the business, commercial place preferred; reference from last and present employer. Address N. C. care American Florist.

SITUATION WANTED—By a thorough, practical man to head garden or manage a large private or commercial place; experienced in all branches of the art, particularly qualified in rose, tangerine plants, carpet designs, rockwork, and landscape gardening. Unexcelled in orchid culture. A successful hybridizer. Wide knowledge of vegetable and grape culture. Only first class place required. Married, small family. 20 years' experience. No references. Address C. L. LINKER, General Delivery, Pittsburgh, Pa.

WANTED—To correspond with a party who thoroughly understands bulb growing, and would come to Bermuda. Address GEO. W. WEST, Shelby Bay, Bermuda.

WANTED—A florist who thoroughly understands rockwork and will well up in floral work. Address with references, G. VAN BOCHYVE & BROS., Kalamazoo, Mich.

WANTED—A sober man who understands general greenhouse work. Steady work and good treatment in large commercial establishment. Address N. N. care American Florist.

WANTED—Good second hand boiler capable of heating 1000 ft. of 1 1/2 inch pipe. Price of 4-inch pipe, must be cheap for cash. Address V. P., Box 145, Riverside, Cook Co., Ill.

WANTED—A young florist, good general greenhouse work, must be steady, work and making up; must be well recommended. When applying send references and mention wages expected. Address JOSEPH B. BROWN, Bridgeport, Conn.

WANTED—Immediately, man to take charge of greenhouse, must be sober, industrious and well qualified in all branches of the floral business; none but good men need apply. Refer to references to ADRIAN FLORIST, Chicago.

FOR RENT OR SALE—Four houses (flat), heated by steam; convenient to cable cars; in a prominent western city. Special bargain. Address K. K. care American Florist.

FOR SALE—\$2400 cash takes well established florist plant growing in 90 large houses, stock tools, wagons and horses; 140 feet of ground, in good retail location in Chicago worth the money. Address N. W. care American Florist.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept.)
ALL FLOWERS IN SEASON.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.
All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

A. L. RANDALL, (SUCCESSOR TO) C. H. FISK, WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES, 116 Dearborn Street, CHICAGO. OPEN NIGHTS AND SUNDAYS. WIRE DESIGNS IN STOCK.

E. J. HARMS, Wholesale Dealer in CUT FLOWERS, And Florists' Supplies. 89 Wabash Ave., CHICAGO. Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese, Wholesale Cut Flowers, 66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
given to shipping orders.

C. STRAUSS & Co. GROWERS OF CUT FLOWERS. —) WHOLESALE ONLY. (— SPECIALTY.—Filling Telegraphic Orders. WASHINGTON, D. C.

Wholesale Florists LA ROCHE & STAHL N. E. CORNER 13th and Chestnut Sts., PHILADELPHIA.

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Write or Telegraph.
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C. E. & S. S. PENNOCK, WHOLESALE FLORISTS, 38 S. 16th Street, Philadelphia, Pa.

F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
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Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.
17 Wholesale Catalogue on application.

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Cut Flowers.

BOSTON, May 11.	
Roses, Tea	2.00 @ 2.50
" Jacqs. Hybrids	8.00 @ 12.00
Carnations	2.00 @ 2.50
Valley	2.00 @ 2.50
Dafoedii	1.00 @ 2.00
Pansies	.50 @ 1.00
Stocks	.50 @ 1.00
Mignonette, bell-shaped	1.00 @ 1.50
Callas	1.00 @ 1.50
Smilax	15.00 @ 20.00
Adiantum	1.00 @ 1.50

NEW YORK, May 11.	
Roses, Beauties	5.00 @ 20.00
" Hybrids	5.00 @ 20.00
" Bon Silene	.50 @ 1.00
" Gouders, Soua	1.00 @ 2.00
" Perles, Niphotos	1.00 @ 4.00
" Mermets, Brides	1.00 @ 4.00
" Watervilles, Cousins	1.00 @ 4.00
" Woodtons, Hostes	1.00 @ 2.00
" La France, Albany	2.00 @ 2.00
" Jacqs	2.00 @ 10.00
Valley, Jaddia, hydrangea	2.00 @ 2.00
Callas	1.00 @ 4.00
Mignonette	.50 @ 1.00
Carnations, long	.50 @ 1.00
Smilax	15.00 @ 20.00
Harriet Hill	5.00 @ 5.00
Lilac, outdoor, per bunch	.05 @ 1.00
Lilac, outdoor, white, per bunch	.05 @ 1.00

PHILADELPHIA, May 11.	
Roses, Beauties	15.00 @ 20.00
" Brunners	2.00 @ 2.00
" La France, Albany	2.00 @ 2.00
" Laings, Lalzeta	15.00 @ 20.00
" Mermets, Brides	1.00 @ 4.00
" Cousins, Watervilles	3.00 @ 6.00
" Woodtons, Hostes	5.00 @ 5.00
" Perles, Niphotos	2.00 @ 4.00
Carnations, Wilders	.50 @ 1.00
Valley	1.50 @ 4.00
Sweet peas	1.00 @ 1.50
Narcissus poeticus	1.00 @ 1.50
Adiantum	1.00 @ 1.50
Smilax	30.00 @ 25.00

CHICAGO, May 12.	
Roses, Bon Silenes	1.00 @ 2.00
" Perles, Niphotos	1.00 @ 4.00
" Mermets	4.00 @ 6.00
" Laings, Lalzeta	4.00 @ 6.00
" Brides	4.00 @ 6.00
" Beauties	10.00 @ 12.00
" Cousins	2.00 @ 3.00
" Jacqs	10.00 @ 15.00
" Albany	5.00 @ 7.00
" Hostes	5.00 @ 5.00
Carnations, short	.75 @ 1.00
Carnations, long	1.00 @ 1.50
Valley, Romans	2.00 @ 4.00
Callas	2.00 @ 3.00
Harriet Hill	5.00 @ 10.00
Callas	2.00 @ 4.00
Smilax	15.00 @ 25.00
Dutch hyacinths, outdoor grown	2.00 @ 3.00
Dafoedii, outdoor grown	1.00 @ 1.00

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67 Bromfield Street, BOSTON, MASS.
Mention American Florist.

GEO. MULLEN, WHOLESALE FLORIST, Florists' Supplies Always in Stock. 17 CHAPMAN PLACE, (Off School St., near Parker House), BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express
promptly filled.

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**WELCH BROS.
WHOLESALE FLORISTS**
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers, carefully packed, to all points in Western and Middle States. Return Telegram order sent immediately when it is impossible to fill it.
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A. S. Burns. J. I. Raynor. BURNS & RAYNOR, WHOLESALE FLORISTS, 11 West 28th St., NEW YORK.

N. F. MCCARTHY & CO. Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
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We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

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Insures Greenhouses against damage by hail. For full information address
J. G. ESLER, Sec'y, Saddle River, N. J.

DIRECTORY. Every Florist, Nurseryman and Seedsmen should have one. AMERICAN FLORIST CO., Chicago.

☉ Re Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president, JOHN FORTISS, JR., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

MR. F. BENARY sailed for home from New York on Thursday, May 7.

SYRACUSE, N. Y., May 5.—A. D. Perry & Co. had a very narrow escape during the recent extensive fire at this place.

MR. D. M. FERRY, wife and daughter spent a few hours in Chicago on the sixth on their way home from a two months' pleasure trip in California. Mr. F. is in excellent health.

MR. A. BLANC, of Philadelphia, is reported to be a loser by the failure of the Spring Garden National Bank of that city. We trust that Mr. Blanc with his usual good nature still has most of his spring accounts in the hands of his customers.

New Notes.

ST. LOUIS.—In consequence of the recent death of Mr. John Juergel, of John Juergel & Son, the business will be now conducted under the new style of Chas. A. Juergel, at the old stand, 1843 Linn street.

NEWPORT, R. I.—The Newport Horticultural Society will give its second annual chrysanthemum exhibition November 10 to 12. The premium list has been printed and copies may be had on application to the secretary.

MILWAUKEE, WIS.—The Wisconsin Florists' and Gardeners' Club at its last meeting decided to hold its chrysanthemum show November 3 to 6. Wm. Lauf, formerly with F. Schmeling, is building eight new greenhouses opposite Calvary Cemetery. C. B. Whitnall & Co. have removed to a new store not far distant from their old stand. Their number is now 438 Milwaukee street.

HAMILTON, ONT.—The Gardeners' and Florists' Club of this city will hold a rose show, open to all the world, the last week in June. Premium lists and all information can be had of the secretary, H. Brown, Wentworth street. The club hopes for spirited competition and a grand exhibition showing what can be done in the gardens of Canada, the Niagara peninsula. The two classes of exhibitors, professional and amateur, are kept distinct and special sets of prizes allotted to each. We hope to hear from our friends within reach all round: Rochester, Buffalo and New York; and why not Cleveland, Detroit and Chicago?

SYRACUSE, N. Y.—Albert Burt, the florist, has left town and is supposed to be in Canada. His several establishments are in the hands of the sheriff under a judgment in favor of Henry Burt, his father, for the sum of \$18,835.54. Burt is reported to have been neglecting his business for some time. It is also reported that there is a woman in the case and that she accompanied him in his flight. It is estimated that Burt's liabilities will aggregate between \$40,000 and \$50,000, with nominal assets of about \$30,000. His father is secured over the mortgages for the notes outstanding. What will be left for the creditors, it is feared, will be small.



CHOICE AMERICAN GROWN FREESIA BULBS, READY IN JUNE.

We have had grown for us 100,000 Choice Bulbs of **FREESIA REFRACTA ALBA**, which we offer on contract orders booked now, until stock is exhausted, at the following prices:

Per 100	Per 1000
FIRST SIZE, SELECTED , much larger than French grown bulbs	\$1.00 \$ 8.00
PURE WHITE, SELECTED, EXTRA , very fine bulbs	1.25 10.00

Special rates on application for large orders.
FLORISTS USING LILY OF THE VALLEY, BERLIN PIPS, ROMAN HYACINTHS, NARCISSUS, DUTCH HYACINTHS, TULIPS, Etc. will do well to send lists for our special offers. The quality of our Bulbs is unexcelled.

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WHOLESALE IMPORTERS OF BULBS,
1301 and 1303 Market Street,
PHILADELPHIA, PA.

BULBS. BULBS. BULBS. CHINESE NARCISSUS.

ORDER NOW if you wish to secure BEST GOODS at Lowest Rates.

AURATUM, LONGIFLORUM, RUBRUM,  KRAMERI, ALBUM, ETC. CALIFORNIA BULBS.

We guarantee you best stock at the most reasonable rates if ordered now.
AUSTRALIAN PALM AND CALIFORNIA FLOWER SEEDS.

— SEND FOR OUR NEWEST TRADE PRICE LIST. —

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HOLLAND FORCING BULBS

And Flower Roots of all kinds. FIRST CLASS Goods.

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ORDER EARLY. **C. H. C. MACHEN & SONS,**
WHOLESALE BULB GROWERS.

WHOLESALE ONLY. **WARMOND, (NEAR HAARLEM), HOLLAND.**

J. A. De Veer,
154 East 34th St., NEW YORK.

A full line of Summer Flowering Bulbs, Seeds, Plants and Florists' Supplies furnished at lowest market prices.

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3 Centries Slip, - NEW YORK.

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Do you want the

BEST SEEDS?

If so, send to

SCHLEGER & FOTTLER,
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Special attention given to

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Lilium Harrisii, Longiflorum, Candidum, Roman Hyacinths, Paper White Narcissus, and all other kinds.

DUTCH HYACINTHS,
TULIPS, CROCUS, SPIRÆA, LILY OF THE VALLEY, AZALEA INDICA, ROSES, ETC., ETC.

Wholesale price list on application to
HULSEBOSCH BROS.,
P. O. Box 3118. NEW YORK CITY.

The only Dutch Bulb Growers of whom from there reside a member in New York to conduct the business. So that we can be reached always.
Mention American Florist.

IMPORT PRICES
ON FALL BULBS
READY NOW.

Prices Bottom Quality First Class. Let us figure on your orders. We can save you money.

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6 & 8 North Clark St., CHICAGO.

R. H. JAMES,
ST. GEORGES, BERMUDEA,
Grower of Bermuda Bulbs, has ready for delivery, or at any season of year, Canna, Ellemanni and Gladiolus roots, Freesia refracta alba bulbs, May delivery. Low rates.
Write for Price List.

FORCING ROSES

NOW IN EXCELLENT CONDITION.

	2 1/2-inch. Per 100
Duchess of Albany.....	\$7.00
Perle des Jardins.....	5.00
Niphetos.....	5.00
La France.....	5.00
C. Mermet.....	4.00
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Will book orders for later delivery from 2 1/2, 3 and 4-in. pots. Write for prices.

BROWN & CANFIELD,
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Mention American Florist.

ROSES.

We still have ready for immediate shipment, in excellent condition, a fine assortment and true to name:

50,000 ROSES in 2-inch pots, \$35.00 per 1000, our selection; \$40.00 per 1000, your selection.

Send your lists to be priced for everything in the FLORISTS' line. Satisfaction guaranteed. Catalogues upon application.

Address **NANZ & NEUNER,**
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E. G. HILL & CO.,
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Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAPLES:
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A very large stock of young ROSES of the leading bedding and forcing varieties. Also large stock of same in 3 and 6-inch pots. The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
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1000 La France, 2 1/2-in. pots, \$40 per 1000
500 Perles, 2 1/2-inch pots, \$4.50 per 100
800 Goutiers, 2 1/2-in. pots, " per 100
500 Brides, 2 1/2-inch pots, " per 100
5000 Verbenas in bloom, \$35.00 per 1000;
\$4.00 per hundred.

DE WITT BROS., Bristol, Pa.

ROSE PLANTS

by the thousands. Clean, strong and healthy. Ready for prompt delivery.

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Address **GERMOND & COSGROVE,**
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ROSES.

All the best varieties for forcing, and also for bedding out, in 2 and 2 1/2-inch pots, \$1.50 per 100; \$4.00 per 1000. Own selection, \$3.00 per 1000. Roses in 3, 4 and 5-inch pots at lowest rates. Also greenhouse and bedding plants.

Price list free on application.

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ROSES.

\$3.00 per Hundred; \$25.00 per Thousand. We offer the following varieties of Roses, \$3.00 per 100; \$25.00 per 1000:

PERMETS, LA FRANCE, PERLES, NIPHETOS, BRIDES, BRABANT, MAR NEIL.

Cash with order.
OBBERMEYER & HARTING,
1068 S. Brown Street, DAYTON, OHIO.

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READY MAY 15.

From 2 1/2-inch Pots.		
1 Plant, \$1.00.	257 Plants, \$8.00.00.	
12 Plants, 9.00.	500 Plants, 15.00.	
50 Plants, 33.00.	1000 Plants, 30.00.	
100 Plants, 50.00.		

From 4-inch Pots.		
1 Plant, \$1.50.	50 Plants, \$40.00.	
12 Plants, 15.00.	100 Plants, 75.00.	
50 Plants, 35.00.		

The following Agents have been appointed to sell the Rose in the respective territories given below:

WM. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th and Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

EUROPEAN AGENTS: **WM. PAUL & SON,** Waltham Cross, England.

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WABAN, SOUVENIR DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other NEW and Standard Varieties of TEAS; Hybrid Remontant, including HEINRICH SCHULTHEIS, which is by far the best early forcing Hybrid. This is the variety which MR. JULIUS ROEHRSS has forced so successfully for the past three years. Also all the best varieties of

HYBRID TEAS, CHINAS and BOURBONS,

For forcing, bedding, etc., all of which I have an EXTRA fine stock now ready for shipping at prices as low as any one can produce such stock for. NEW PRICE LIST TO THE TRADE NOW READY.

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Mention American Florist.

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ROSES FOR FLORISTS.

OVER THREE HUNDRED AND FIFTY VARIETIES ON SALE. Ready for Immediate Delivery.

We offer the largest and most complete stock of Roses in this country. Straight 2 1/2-inch plants, propagated from well matured field grown plants, and grown in ordinary soil without manure or any stimulating material whatever.

Our Roses Resist Disease, Start Quickly, Grow Rapidly and Always give Best Results.

All the Newest and Choicest Roses for Sale and Bloom. The famous New American Pedigree Roses—Henry M. Stanley, Pearl Rivers, Mrs. Jessie Fremont, Maud Little and Golden Gate. If you want to buy Roses send your lists and have them priced. Prices low, according to value of varieties and size and character of order.

The New White Chinese Wistaria, the finest of all. New Chinese Double Purple Wistaria, very rare. Wistaria Sinensis, Magnifica and Frutescens. Fine Hardy Shrubbery, all varieties, cheaper and better than imported.

New Chrysanthemums. Harry E. Weidener, Ada Spaulding, V. H. Hallock, Louis Boehmer, Mrs. Alpheus Hardy, Nymphs and 100 other newest and best vars. for all purposes. THE BEAUTIFUL MANETTA VINE, new MOON FLOWERS, etc. Wholesale Price Lists FREE to Florists, Market Gardeners and Dealers only.

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ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices Now Ready.

We have about thirty-five thousand (35,000) of the leading,

FORCING ROSES,

which we quote at \$4.00 per 100, 2-in. pots.

Excepting Duchess of Albany, Souv. de Wootton and Wm. Francis Bennett, which we quote at \$7.00 per 100.

L. A. CASPER, Council Bluffs, Iowa.

Pontederia Crassipes Major or

WATER HYACINTH, Wanted.

State quantity and price.

ALSO LIGHT COLORED GLADIOLUS.

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Surplus Stock!

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PERLES, BRIDES,

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DETROIT, MICH.

Some Choice Orchids.

Among the latest additions to the very valuable collection of orchids in the possession of Mr. F. T. McFadden, Rosebank, Cincinnati, O., is a new variety of Cattleya Mossiae named Renckiana. This plant has seven bulbs and two leads with four flowers; petals and sepals pure white, throat orange yellow with a few lavender veins on lip. This is a rare kind; it is believed there are but two plants in America, the other being in the possession of F. L. Ames Esq., of Boston.

Vanda Parishii Marriotiana, Cypripedium Seejerianum and Mastersianum, lately received from Messrs. Low, of London; Odontoglossum crispum, sepals and petals pure white, with yellow throat, a most lovely flower, quite distinct.

Within the next few days there will be from 1200 to 1500 blooms of Cattleya Mossiae alone.

Hybrid roses and chrysanthemums are also grown largely here, acknowledged to produce the finest blooms in this section.

All the plants bear testimony to the care and attention bestowed upon them by the able and courteous gardener, Mr. Ino. Rose, who is always pleased to meet an interested visitor. A visit to this delightful spot will never be regretted by any of our brethren who can pay one, especially in spring or fall. N. MOTT.

Correction.

ED. AM. FLORIST.—In the report of the Baltimore flower show I am credited with having shown in my collection of carnations "The American Flag" and "Grace Darling." This is an error, as my exhibit consisted entirely of my own seedlings.

The report also states that the "Fred Creighton" was by far the finest of the lot. I don't find any fault with that, but in justice to my other kinds would say that a plant or two of each was all that were in bloom, so I had to scratch up everything in the shape of a flower, but I had over 600 plants of the "Fred Creighton" in good bloom, and of course only cut the very best.

GEORGE CREIGHTON.
New Hamburg, N. Y.

Judging by Points.

The Newport Horticultural Society has adopted the following scale of points for the judging of chrysanthemum plants at its coming exhibition:

Size of bloom and quality	30 points.
Size of plants	30 "
Foliage	20 "
Distinctiveness of form & color	10 "
General effect	10 "

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CARNATIONS:

Have a fine lot of MRS. FISHER now ready, at \$1.50 per 100; \$12.50 per 1000. This sort is a good strong grower, and these cuttings will make good sized plants for next winter's blooming. Am sold out of all others.

COLEUS:

Well Rooted Cuttings of a choice assortment, all good bedding varieties, and an extra large stock of VERSCHAFFELTII. Price, \$6.00 per 1000; 250 at 1000 rates.

PANSIES.

I have still a few of these left; they are fine blooming plants and an extra choice strain. Order at once to secure them. Price is \$1.75 per 100; \$15.00 per 1000.

My Pansies are meeting with the largest sales of any strain in the country, and I shall grow this season not less than half a million to accommodate my customers, some of whom were disappointed last season, but it is not too early to have your order booked—make assurance doubly sure.

The \$6.00 per 1000 SMILAX is all sold. About the last of June and the balance of the Summer, will have some fine pot plants. See adv. for these and Pansies next week.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

CARNATIONS.

Silver Spray, Fred. Creighton, Golden Gate, Fair Rosamond, J. R. Freeman, Hector, Mrs. Fisher, Wm. E. Dreer, Chastity, Tidal Wave, Grand Wilder, L. L. Lamborn, Constance, Edelweiss, Emile Louise Taplin, Angelus, Louise Porsch, Nellie Bly, Dorothy, Day Break, Nellie Lewis,

and sixty other leading varieties. 100,000 ready now. Send for Price List, and secure your stock.
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Bertha Baron,
Baltimore Belle,
Baron Taylor,

Beauty of Waltham,
Blanche de Meru,
Baronne Prevost,
Belle of Normandy,
Charles Ledebvre,
Caroline de Sansal,
Climbing Jules Margottin,
Climbing Victor Verdier,
Coquette des Alpes,
Comtesse de Serenye,
Doctor Hogg,

Doctor Andry,
Fisher Holmes,
General Jacqueminot,
Jules Margottin,
John Hopper,
La France,
La Reine Victor Verdier,
Leopold Hausburg,
Louis Odier,
Magna Charta,
Marchal Forey,
Paul Neyron,

Marie Bauman,
Mrs. Laxton,
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Mme. Gabriel Luizet,
Mme. Alfred de Rougemont,
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Maurice Bernardin,
Mount Carmel,
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President Lincoln,
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Verbenas, mixed,.....	1.50
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English Daisy Longfellow & Dbl. White, doz. 25c.	1.50
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B. FRYER, Delaware, O.

Chicago.

Trade has much improved. The demand has increased and supply fallen off to such an extent that prices have very materially advanced. There is now a shortage in the supply of many flowers, especially in fancy roses and carnations. Tulips are out of the market with the exception of a few late varieties. Hybrid roses are practically all gone and there is but a very limited supply of Jacqs. What Jacqs are to be had are of good quality, but they are very scarce and have been so for several weeks. Plenty of white carnations, but now very few long stemmed flowers of the fancy varieties are to be had and these are not of the best quality. Red peonies have made their appearance, being sent in from Indiana. They are selling at \$10 a 100. Some very fine sweet peas of the variety Painted Lady are coming in in limited quantities. Outdoor grown lily of the valley from growers around the city is beginning to appear in the market as is also Narcissus poeticus.

Mr. John Thorpe reached the city on Tuesday, the 5th. He expected to remain for two days only, but he found things so lively here that it was the evening of the 10th before he got away. While here he called upon Director-General Davis of the World's Columbian Exposition, and the Director-General finding that Mr. Thorpe was soon to visit Europe gave him a commission to represent the great exposition abroad, particularly in the interest of the Department of Horticulture. This was certainly a most desirable arrangement and will undoubtedly be of decided advantage to the exposition. Mr. Thorpe went from here to St. Louis and after a short stay there will visit Cincinnati, Cleveland, Buffalo, Rochester, Toronto and other cities.

Henry Mundt has purchased land at Harlem and will remove his greenhouses to the new place. J. F. Khimmer, also now at Harlem, has been elected president of the town board.

Mr. August Schenkel, the Denver florist, visited the city last Thursday.

M. F. Gallagher, the Wabash avenue florist, recently returned from an extended trip through the south.

W. G. Newett's greenhouses on Grand Boulevard were seriously injured by fire last week. The roofs of several greenhouses were burned off and the adjoining barn was also destroyed with its contents, including horses and wagons. The loss is estimated at several thousands of dollars, with no insurance.

The wife of Wm. A. Kennedy, foreman at the McCormick Rose Houses, Lake Forest, died last Saturday. The remains will be taken to Mont Clair, N. J., for interment.

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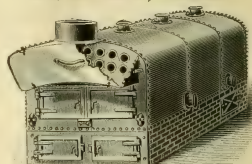
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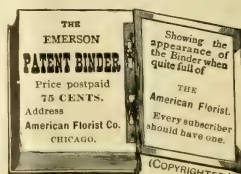
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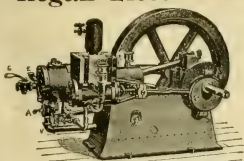
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LOS ANGELES, CAL.—A rose festival was opened here May 6 and continued four days.

FAIRFAX, IOWA.—C. P. Osborn, the well known horticulturist, died April 26 of pneumonia, aged 73 years.

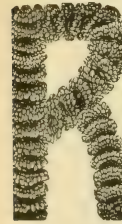
SAN DIEGO, CAL.—The annual flower festival began April 29 and was continued through the week. It was very successful.

VANCOUVER, WASH.—G. Mitchell, formerly of La Camas, this state, has located here and built a greenhouse for general local trade. This is an enterprising town of 4,000 inhabitants.

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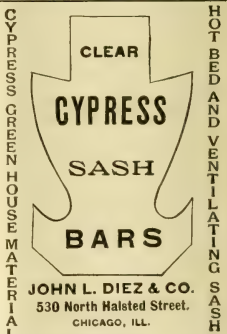
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THE AMERICAN FLORIST



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Vol. VI.

CHICAGO AND NEW YORK, MAY 21, 1891.

No. 155.

THE AMERICAN FLORIST

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PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

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AMERICAN FLORIST COMPANY,

54 La Salle Street, CHICAGO.

SOCIETY OF AMERICAN FLORISTS.

M. H. NORTON, Boston, Mass., president; JOHN HARRIS, Toronto, Ont., vice-president; W. J. STEWART, of Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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Insures greenhouses against damage by hail. JOHN G. ESTES, Secretary, Saddle River, N. J.

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Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BRATY, Sec'y, Oil City, Pa.

AMERICAN CHRYSANTHEMUM SOCIETY.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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WHEN YOU get your premium lists printed don't forget to give the address as well as the name of the secretary. Make communication with your organization just as easy as possible if you want your premium list to accomplish the most good.

GROWING CROPS and fruit at Hoopston, Ill., were badly damaged by heavy frost the night of May 17. Grapes were killed. Two-thirds of the 800 acres of peas belonging to the Hoopston Canning Co. were cut to the ground.

WHEN YOU write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.



Odontoglossums and Other Orchids at North Easton, Mass.

Many unsuccessful attempts have been made from time to time by orchid growers throughout the country to increase the popularity of these the most choicest of all orchids, but owing to our excessive summer heat and lack of suitable structures for them their culture has in some instances been discarded, though with many a regret.

At Langwater Gardens the collection owned by Mr. F. L. Ames is well worth visiting; there is now to be seen there such a magnificent floral display as is rarely to be met with, there being upwards of 1,000 fully expanded blossoms of *O. crispum* (Alexandra), many plants having four and five spikes, each with large, bold flowers and broad sepals and petals, which in some instances measured four inches across and were borne on long arching stems in a graceful and elegant manner; very few "starry" forms were noticed, all being the true "Pachio" type which is now so famous and far superior to the narrow petalled form. The *O. Pescatorei* were equally well bloomed, fully six hundred flowers were open. On one plant a handsome panicle had sixty blooms; numerous others were carrying on well branched stems thirty and forty flowers and among them a charming variety named *O. Pescatorei virginialis* having blossoms of the purest white furnished in the center only with a soft yellow blotch.

Among this group hybrids of different character were very prominent and many more were rapidly developing; the visitor will find a host of interesting things for several weeks to come. Some grand examples of *O. Wilckeanum* were bearing on bold spikes their sulphur yellow and rich red blotched flowers. The rare *O. elegans* was represented here by several fine, well grown plants which were carrying eight, ten and fourteen flowers; this is a beautiful orchid and a supposed natural hybrid between *O. cirrhosum* and *O. cristatum*. A strong plant of *O. Pescatorei* excellent was past its best, the yellow and chocolate spotting and blotches were rapidly fading. The golden yellow and chocolate flowers of *O. Hallii* were seen in profusion and several forms of *O. cirrhosum*, chief among them being Klaboch's form, which is easily distinguished by its larger flowers and much darker markings than the type. The orange scarlet flowers of *O. retusum* also blended well among this group and was much admired on account of its glowing color. The rare *Maxillaria*

Sanderiana was well bloomed with its massive white and pink flowers. *O. Warszewiczii* also had a strong spike, and many flowering *oncidiums*, among them *O. concolor* and a fine specimen of *O. superbis* bearing numbers of its yellow and chocolate blossoms.

Placed here and there about this structure quantities of *masdevallias* were seen. Much attention is bestowed upon them here and the results are gratifying to all who have witnessed the many forms and rare species that have recently flowered. Many hybrids of excellent character were noticed, among them the pretty *M. Gelseniana* with fifteen flowers and many buds to open. This is a distinct type obtained by crossing *M. Shuttleworthii* with *M. Wagneriana*. Some superb forms of *M. chelsoni* were very conspicuous, among them specimens carrying twenty to thirty flowers. The pretty *M. xanthocorys* had fifteen flowers, and the rose flowered *M. Armini*; a number of the chimera section also added to the display including the black form known as *M. c. Koezlii*. A fine plant of the *M. radiosa* had produced a profusion of its quaint blossoms. *M. bella*, *M. Houtteana* and others were equally well flowered. All this section are placed in baskets and thrive and bloom profusely, sending their interesting flowers beneath and around the sides of the baskets, which when suspended are seen to every advantage. Chief among this group mention must be made of the superb varieties of *M. Harryana*; here they are grown to perfection and in fine specimens embracing many forms of all the conceivable shades of purple. Strong spikes in quantity were produced well above the broad green foliage, producing an effect of a very striking character.

The description of this house has often been noted in your columns, but it may be in order to mention that it is a lean-to structure facing north, the back wall being covered with sphagnum moss, over which a quantity of *selaginella* has found a home, and this is daily syringed and the moisture emitted suits the plants' requirements admirably, the bulbs being well formed and foliage of sound texture.

In the cattleya house some remarkable *cypripediums* were in bloom, enjoying a position on a side stage, thriving and rooting freely and producing growths of great size. Here are found *C. caudatum* carrying 24 of its curious and interesting flowers, many of the petals measuring from 24 to 28 inches, and by its side a superb example of the white variety known as *C. c. Wallisii*, carrying three spikes with nine handsome flowers. This variety is one of the best we have seen. A hybrid suspended from the roof was very attractive, obtained by crossing *C. Spicerianum* with *C. villosum* and named *C. Lathamianum*. A fine plant of the chaste and distinct *Godseffianum* was

well bloomed, and which has increased very much in size and the markings also are brighter than was seen in the first plants that flowered. This is still a very rare plant. The delicate flowers of *C. leucorhodium* were very fine, and the rare *C. macropterum* also proves a superb one, the plant here carried nine flowers and was much admired. Among others noticed were *C. Mrs. Canham*, purple var. *C. Williamsii*, *C. Petri*, *C. Lindley-gnum*—an interesting species and well grown here, the specimen had nine fine blooms; *C. Lawrenceanum*, though a common plant, one of the finest forms was flowering with seven blossoms of enormous size, the dorsal sepals measured three and one-half inches and the purple lines were of an exceedingly rich color. The "albino" variety *C. L. Hyennum* had two charming flowers; the purple coloring which predominates in the type is entirely absent in this variety, the dorsal sepal is white, furnished with bright green veins, the petals and lip also are light green, the latter furnished with darker venations. *Uropodium Lindenii* with its pouchlike blossoms and long tail-like petals was seen in excellent condition.

Among the cattleyas *C. Lawrenceana* was the most conspicuous. Many well flowered plants were suspended from the roof in baskets with six, seven and eight flowers on a stem, among them a valuable form named *C. L. MacFarlanei* was noticed with flowers of an intensely rich purple. A pale form and very pleasing was a variety named *C. L. rosea* with large broad-petalled flower and a soft rose colored lip. *C. maxima*, *C. Mendeli* and *C. Mossie* also were finely flowered together with the rare *C. bella cuspidata* and specimens of *Lalia purpurata* and its variety "alba," one plant had six bold spikes. A pretty form of *Oncidium Kramerii* named *lutea* was much admired, being devoid of all spots and of a soft clear yellow color. Several *Vanda* teres and its variety *Andersonii* had produced a fine show of bloom.

Many other choice and beautiful things were seen, including a number of dendrobies, epidendrums and some fine vandas and phalaenopsis which would occupy too much of your valuable space if here enumerated. There, however, will be found a most agreeable and pleasant surprise in store for all lovers of these plants who may visit this collection for several weeks hence and Mr. Robinson, the gardener here, is ever ready to show this complete collection, of which he has charge, to any one interested.

New York.

A. DIMMOCK.

Pteris.

After the maidenhaurs this extensive genus of ferns is doubtless the most useful to the florist, containing as it does, so many species and varieties that are of sufficiently hardy constitution for the various forms of decorative work.

And there being also so much variety in habit and size of growth among the pteris gives them still another advantage, while for lasting qualities when cut they have no superiors in the fern family.

Regarding culture it may be stated that no other ferns are easier to handle than these, and as they produce spores in great quantities and these germinate readily, there is usually but little difficulty in securing a stock. As is not uncommon in so prolific a family, there have been a great many variations from the different types produced among seedlings, and in

consequence almost every large grower of ferns has one or more special varieties that have originated in his own establishment, some of which may have been named more or less correctly.

Some of these variations, however, are not permanent and are therefore of little value, while others originated in the same manner are now included among our most valuable trade sorts.

Among the varieties that are of special value are several of the cretica class, of which the old and well known *P. cretica* is the type. The last named is itself a first rate fern when grown moderately light, so that the fronds are not drawn up, and firm, fully developed fronds of this species last longer in water than any other fern I know.

Of the varieties of this species *P. cretica albo-lineata*, the familiar silvery striped fronds of which are so often seen, is one of the hardest and will do well in quite a cool house, providing that water is not allowed to remain on the foliage during the dull days of winter, as in the latter case the leaves may become rusty.

P. cretica magnifica is another fine variety of garden origin, being more dwarf in habit than the type and having the tip of each pinna nicely crested. This like the preceding comes true and freely from spores, and being of rapid growth soon makes a salable plant.

Doubtless one of the best that has been introduced thus far is one of the recent novelties, *P. cretica nobilis*, to which reference has before been made in these columns. It is dwarf in habit, the fronds being almost upright, very hard and of good substance and having the tips of the pinnae very much crested. *P. cretica nobilis* was of English origin, and has been introduced on this side within the past two years.

Next to the cretica varieties in usefulness, or perhaps side by side with them, are the members of the serrulata group, beginning with *Pteris serrulata*, one of the widest known of the genus, the graceful, pendulous fronds of which are seen in almost every greenhouse in which a fern is grown.

Among the varieties of this species *P. serrulata cristata* and *P. s. corymbifera* are two of the most useful, the latter being much more dwarf and compact than the first and also more completely crested.

P. s. Dixonii is also a good variety, the pinna being narrower than that of *P. s. cristata* and more profusely crested.

The species under consideration, *P. serrulata*, has been very generous in variations and in addition to the above there are several fine varieties, among which may be included *P. s. angustata*, *P. s. variegata* and *P. s. tenuifolia*.

Some of the stronger-growing pteris should also be noted, and in this connection the first that comes to mind is *P. tremula*, a very popular fern in some sections of this country, and a remarkably handsome one too, the lively green of its fronds being very noticeable among other ferns.

A comparatively new variety of this species has been distributed under the name of *P. tremula grandiceps*, and as the varietal name indicates, the tips of the pinnae are ornamented with large crests, this making it one of the most striking novelties of this character that has been sent out of late years.

Pteris quadriaurita is also an excellent species where large plants can be used, being of rapid growth and producing very large fronds of a peculiar grayish green color.

We are also somewhat indebted to *P.*

quadriaurita for the production of so good and useful a fern as *P. argyrea*, the latter being a variety of the former, and is certainly one of the best variegated ferns in cultivation, though the fronds are somewhat brittle.

Another pretty species is *P. leptophylla*, which may be briefly described as having somewhat the appearance of a finely cut variety of *P. tremula*, but also having the edges of the pinnae deeply serrated.

P. palmata and *P. sagittifolia* are also to be classed among the useful ferns, and may be more easily recognized by some under their old name of doryopteris, the first having broad, deep green leaves that are deeply divided into five or more lobes and black, wiry looking stems. The second, *P. sagittifolia*, has entire leaves, arrow shaped and from four to six inches long. Both of these species make nice little plants in 3-inch pots and contrast well with some of the finer growing ferns.

P. rubro-nervia is also a pretty variety to mix among others and has finely cut pinnate leaves about a foot in length, the stems and midribs of which are purplish red. This, like the beautiful *P. tricolor*, is a variety of *P. aspericulis*, and probably the most useful one, as *P. tricolor* is so delicate as to be of little value to the average florist.

W. H. TAPLIN.

Growing Dutch Bulbs in America.

Can Dutch bulbs and lily of the valley be grown in this country, of as good a quality as those imported from Europe, and if so, can it be done at a profit?

This question has been considerably discussed pro and con, and at one time not long since formed a topic of discussion at a meeting of the Chicago Florist Club. It is a subject of great interest to many of our growers, and a free discussion in the *FLORIST* by members of our craft familiar with the subject undoubtedly would bear fruit. It is with this view that we venture to take up the subject. For himself the writer can claim but a very limited knowledge of bulb growing, but being always greatly interested in this class of flowers, has been a close observer of the methods pursued and the results obtained by those actively engaged in this line of business. These observations so far as they go, will be the subject of this article, confining ourselves mainly to the growing of tulips and lily of the valley.

It would seem strange indeed that in this large country with every variety of soil and climate, suitable localities could not be found where these bulbs could be cultivated to perfection. It is in a locality where we might least expect it that sometimes the best results may be obtained. This seems to be the case in northern Illinois, particularly in the vicinity of Lake Michigan. The fact that two or three of our growers in the neighborhood of Chicago have met with decided success in this line seems to prove this fact.

Mr. Geo. Klehm of the J. Klehm Nurseries at Arlington Heights, about 25 miles north of Chicago, is particularly enthusiastic in this matter. His attempts in the cultivation of bulbs, although having gone hardly beyond the experimental stage, has warranted him, by the expenditure of a considerable sum of money, in enlarging his growing capacity. The past season about one acre of ground has been devoted by this firm to the cultivation of bulbs, mainly tulips, and two-thirds of an acre to lily of the valley. The soil is a rich clay loam, having been heavily manured and cultivated in grow-



PTERIS VICTORIAE (NEW)

ing vegetables for many years. It is in excellent condition and to judge by the appearance of the stock grown in this place it seems to be well adapted for this class of bulbs.

Of tulips, on say two-thirds of an acre, about 150,000 are grown; of this number 30,000 to 35,000 will be suitable for forcing next winter although none of them will be used for this purpose as these bulbs will be grown for increase another year.

Most of the original stock was obtained by gathering up all the bulbs that could be obtained from the local growers, having been forced for winter flowers, but last year a good many of the new varieties from Holland were added. The leading varieties are the standard sorts which are largely used for forcing in this country, such as Chrysolora, Yellow Prince, La Reine, Proserpine, Kaiser Kroon, Duchess of Parma, Cottage Maid, etc.; of the newer sorts *Coleur de Cardinal*

and *Prince de Austria* showed particularly fine this spring.

Lily of the valley grown on this place looks as luxuriant as any we have ever seen in Germany. Between 200,000 and 300,000 pips are grown this season. The plants multiply very fast and it is the firm belief of Mr. Klehm that before many years he will be able to supply our local growers with a good proportion of the stock now annually imported.

However visionary this may seem we

think honestly that Mr. K's hopes are pretty well grounded. It has been demonstrated that tulips and valley can be grown here in suitable localities, which are in every way as good as European stock and well adapted for forcing. From what we have seen this past winter we are led to believe that home grown valley in particular is superior, especially for early forcing, the flowers averaging one third more in the number of bells besides being stronger and every pip throwing up good foliage.

But here is the great question: Can these bulbs be grown at a profit and can we ever hope to compete with Holland or Germany. It seems at first glance to be almost a hopeless case when we compare the difference in the cost of labor in this country and in Europe, and labor certainly is a very important part in the cultivation of bulbs. Still to our mind there are many things in our favor which ought to be duly taken into consideration, one important factor being the relative cheapness of land. We can devote three or four acres of ground to a given number of bulbs where the same number may be grown on one acre abroad, and instead of employing manual labor for hoeing and weeding we would use the horse power in cultivating. This is practiced at Klehm's nurseries, the bulbs being planted in long rows say 300 feet long and two feet between the rows. A new kind of cultivator, two horse power, is used. The machine straddles the row, thus cultivating two rows at a time. Two adjustable steel plates pass on either side of the row and serve to keep the soil from covering up the plants. By this means a large item of expense can be saved in taking care of the stock until it matures.

Speaking of cultivation it should be borne in mind that success largely depends in the maturing of the bulbs during the growing period which follows the flowering season. This can be accomplished only by the most careful tending of the soil. This brings to mind the incident which is to the point. Last summer while visiting an old nursery where tulips had been grown or rather allowed to grow for the last 30 years or more we were shown over the place and our attention called to the tulip beds, but not a sign of a tulip could we see. There appeared some solid rows of grass and weeds about a foot wide with a space of about two feet between rows which had been cultivated once or twice in the spring. By close inspection we discovered the tulips in question securely hidden in the grass. The grower on being questioned explained to us that the object of allowing the grass to grow around the bulbs was to shield them from the rays of the sun. Here were a lot of bulbs smothered in weeds and grass which absorbed every particle of nourishment and moisture of which these very bulbs stood in the most urgent need in order to perfect their growth. The results of this may readily be guessed. The proper curing and care of the stock from the time it is taken up out of the ground until it is replanted is we are very sure not fully appreciated by most growers. It is here that our friends in Holland can give us many a good pointer. In our humble opinion no man will ever grow bulbs at a profit unless he faithfully studies the methods pursued by men who for generations have made it their life study and then adapt them to the different conditions we may encounter in this country.

Chicago.

F. F. BENTLEY.

Some of the Seed Novelties.

BY WM. FALCONER.

GODETIA WHITE PEARL.—Flowers satiny white, habit dwarf and compact.

HELICHRYSUM, SILVER BALL.—A variety with large, full double, extra white flowers. These everlasting grow from seed very readily and come fairly true to variety. If the flowers are gathered before they are quite open and hung up, heads down, in small bunches in a dark but airy shed they will make beautiful immortelles for church or home decoration in winter.

IPOMEEA BRONSONI.—A perennial species from Cuba, of vigorous nature and bearing a profusion of small, white, fragrant blossoms. Easily raised from seed and blooms the first summer.

LATHYRUS MARITIMUS.—This grows abundantly along the sandy shores of Long Island and thrives in cultivation, and its flowers are large, purple and quite showy, at the same time I don't think it will ever receive much attention as a garden plant, for it hardly deserves it.

LATHYRUS LATIFOLIS ALBUS is still being pushed. Now get this plant and grow it and give it supports to climb up into and in summer it will yield you many blossoms. It is a hardy perennial and comes easily from seed, but there has been some complaint that all of the seedlings don't produce white flowers; the plants do not bloom the first year from seed. And the flowers sell well. They have almost no fragrance.

LATHYRUS SPLENDENS.—My plants (of last year's sowing) have not bloomed yet, but we get glowing accounts of the beauty of the brilliant blossoms of this pea from California. And, apparently, it is both useful and ornamental, for I am informed that a farmer in the Golden State finding that his cattle have an especial fondness for the straw of this pea had a quantity of the seed collected last year to sow for fodder for his stock.

VARIEGATED-LEAVED HONESTY (Lunaria biennis, var. fol. var.)—The purple flowered honesty is a common biennial, abundant about old gardens and somewhat coarse; the white flowering variety is far more desirable. The variegation of the leaves, not much of a claim in such a rank subject, however, is all the advantage the above variety has over the purple flowered sort. For florists' use the double flowering forms, especially the double white one, are the only ones worth growing, and they are increased by division and not from seed.

MUCUNA PANICULATA is a tropical vigorous vine of considerable beauty when in bloom. It has large panicles of bluish purple, pea flowers, and leaves not unlike those of a Lima bean plant.

MIMULUS, EMPEROR.—This is an extra large, variegated flowered, hose-in-hose or duplex variety. Although the seeds are fine as dust, they germinate evenly and come up well and in three months from sowing, if liberally treated, make good blooming plants. A pretty annual for pot culture or garden decoration, but of little use for cut flowers.

THE TOBACCOS (Nicotiana).—Among white flowered tobaccos *N. affinis* takes the lead; *N. decurrens* is only a form of *N. affinis*, and no better. *Nicotiana suaveolens* is another night blooming, fragrant, white flowering species and good in its way, but not as showy as *affinis*. As ornamental plants the "koi" varieties, for instance, *macrophylla* and *wigandoides* don't amount to very much,

they carry such a quantity of seed vessels. *Nicotiana glauca* is a species I used to grow for summer planting. It is of tall, branching habit, with rather small glaucous leaves, and at the ends of its shoots it bears lots of small yellow flowers. It has quite a look of *Eucalyptus globulus*.

NICOTIANA COLOSSIA is the most colossal of the family and a striking seed novelty. It is a native of Brazil, whence it was accidentally introduced into Europe with some orchids a few years ago. M. Godefroy, of Argenteuil, first distributed it. An American gentleman who visited France last year saw a bed of this giant tobacco plant in a private garden there, and he tells me it was one of the most striking plants he saw anywhere in any of the gardens. The plants grow to 8 or 10 or more feet high and have leaves 3 to 4 feet long by 18 to 24 inches wide. The leaves are tinted with red when young, and the veins of the old leaves retain this reddish hue.

POPPIES.—I cannot attempt to keep track of all the so-called new varieties of poppies because I can wade through my own poppy patches in June and July and pretty evenly match the new boasted sorts. The variety in form, size, fullness and coloring among our annual poppies is quite extensive and many of them are very beautiful, and instead of finding fault with our seedsmen for selecting and isolating the choicest sorts to name them, it is strange they don't do more of it. But when it comes to types of poppies, for instance the Shirley poppies or Mikado poppies, there are distinct enough lines to draw our attention and the same with species. And it is really worth 15 cents to find out about the "white" and "orange-scarlet" celandine poppies. They are not celandine poppies at all. But the newest thing in the way of poppies that I have noticed this year is Papaver Californicum. It is a somewhat small slender plant 13 to 16 inches high, with finely cut leaves and nearly flat open orange-buff flowers. I have a lot of it in bloom now from seeds sown about ten weeks ago, and in my opinion it has very little horticultural merit. A couple of years ago this little westerner nearly "got out" in another direction, but the samples of seed sent failed to germinate satisfactorily enough to yield sufficient stock.

STAR PILLOXES is the name now applied to the cuspidate section of the Drummond pillox. They are exceedingly curious flowers, so deeply and decidedly fringed and with a peculiar sharp pointed, narrow, elongated middle lobe of the petals, and now not only have we every color in these pilloxes that is presented in the ordinary varieties, but the flowers are large and the habit of the plants good.

PLATYCODON MARDISII. This is a dwarf form of *P. grandiflorum* and one of the most desirable hardy perennials of recent introduction and it is perfectly hardy. It blooms the first year from seed, and keeps in bloom a long time, and it ripens seeds very freely. Although not altogether a new plant its merits well deserve keeping it prominently before the public.

Libomias.

Small plants of an attractive character are as necessary to the adornment of our greenhouses as those of large proportions. Than the Libomias there are no better flowering plants of this class. They are of neat bushy habit, extra fine flowers and easily grown; and their flowers are showy and pleasing. The kinds most



CANE.—BY SCALLEN.

deserving of attention are two in number, *L. floribunda* and *L. Penrhosiensis*.

L. floribunda is a Brazilian shrub which seldom exceeds eighteen inches in height, and young plants are more frequently found to be from nine inches to one foot high. It branches very freely, the branches being furnished with opposite, oval, green leaves. The tubular flowers, an inch in length, bright red at the base and yellow in the upper half, develop with great freedom during the winter months. This species was introduced in 1862, and it is the only one known in gardens.

Penrhosiensis is a remarkable hybrid of *L. floribunda* and the Mexican *Sericographis Ghiesbreghtiana*. The latter plant is a well known and highly commendable winter flowering greenhouse shrub, which bears its flowers of glowing scarlet in loose panicles. The hybrid was obtained at Penrhose Castle in Wales early in the seventies. It is of somewhat stronger growth than *L. floribunda*, and it inherits all the good qualities of that parent. The leaves and flowers in form bear some general resemblance to those of *L. floribunda*, but the latter are of a reddish color and instead of being auxiliary as in the female parent they are borne in clusters something like those of the *Sericographis*. There is another distinct hybrid of the same parentage as *L. Penrhosiensis*, viz., *L. ignea*, and we have a variety of the former with variegated foliage; but although these have unquestionable merits they would prove superfluous where the other kinds were already in cultivation.

There are some interesting facts connected with the past and present names of all the plants mentioned here. Hooker and Bentham now include the former genera *Libonia* and *Sericographis* under the genus *Jacobinia*, and the compound generic title of *Sericobonia* was given to the hybrid *Libonias* by other authorities when they first appeared.

Next little specimens are obtainable in one season from cuttings. They should be propagated early in spring and grown on in pots until the weather attains a sufficient warmth to permit of their being planted outdoors. A moderately rich soil suits them best. The plants should be taken up and potted again early in autumn and wintered in a warm greenhouse. They may be cut down to within two or three inches of the soil after the flowering period, placed in heat until they break freely into growth, hardened off and afterwards treated in the same manner as plants obtained from cuttings,



LAMP.—BY NUGENT.

removing the greater portion of the old soil from the roots at planting, to form larger examples. M. BARKER.
Cambridge, Mass.

Cane and Lamp.

We present herewith illustrations of the two winning arrangements entered for the John May prize at the exhibition of the New York Florists' Club, and which were described on page 740 of our issue for May 7.

We think it but fair to all to say here that we do not indorse all of the designs illustrated in our columns as examples of artistic arrangement. We do not believe in arrangements such as the lamp illustrated in this issue and the candleabra illustrated in our issue of April 23 for the reason that the grace of the flowers is of

necessity destroyed in defining the outlines of these artificial objects. As we have drifted away from the stiff bouquets of years ago, so should we relegate to the rear any arrangement which does not permit each individual flower to give full expression to its own grace and loveliness.

Chicago.

At the last meeting of the Florist Club Mr. W. J. Smyth, with E. Weinhoeber & Co., read a very interesting paper upon the arrangement of flowers.

After modestly disclaiming ability to deal properly with so large a subject Mr. Smyth started with some excellent advice as to the necessity of presenting flowers effectively to the notice of customers in the store. He strongly condemned the practice of laying flowers in trays and held that everything that had a stem should be placed in vases. That vases of proper sizes and shapes to make the best possible display of the flowers should be provided and used and that nearly as much care should be exercised in the arrangement as if the vase was to form part of a decoration. He believed that this care in presenting the flowers to customers paid a large return and urged its great importance in stimulating sales. He said, "Have your best flowers always before the buyer's eyes and arranged loosely in vases—like earthenware the best, believing they show off the flowers to better advantage than any others. Have the vases of a suitable size—so they will not hold too many flowers, and have each bunch of roses, carnations, mignonette, etc. of a size to correspond with the size of the vase. Taking a vase which will hold say about twenty-five *Mermets*, arrange this number of flowers in the vase thus: Place your largest, longest stemmed and best roses in the center; then place those having a few buds and fresh shoots as well as good clean foliage, arranging the weaker stemmed ones on the outside to give irregularity. Let the arrangement be always loose and free from formality and be sure to give the foliage a chance to show itself. Such arrangements excite the admiration of customers and frequently result in the sale of the bunch of flowers as presented in the vase."

In this connection Mr. Smyth spoke of the importance of having the surroundings in keeping with the flowers. Everything should be in such harmony that people of refined tastes will find nothing there to jar upon their sensibilities.

"In decorating a house never place too many flowers in one vase. Use plenty of vases and but a small number of flowers in each, in preference to a few vases crowded with a large number of flowers. We will suppose we are arranging some roses in a small parlor. We will start at the mantel. On the mantel are a large mirror and a beautiful clock that can not be removed. Take a long cut glass vase that will hold six or eight American Beauties with plenty of nice foliage and good long stems, place this vase at the right of the clock and spread the roses as much as possible to give them an easy and graceful effect. At the left of the clock place a shorter vase that will hold say eighteen *Bon Silences* and arrange these also as loosely as possible. I take the roses as they are cut, place the ends of the stems together regardless of the position taken by the flowers—that is if the length of the stems does not vary too much—and tie a piece of wire around the stems close to the ends and then place the bunch in the vase. The roses fall

away into natural positions and as a result I have a very graceful bunch of Bon Silences. A few other roses may be scattered about the room in small vases, not too many in a vase.

"While the carnation does not have the grace of the rose with careful arrangement this defect can be greatly overcome. In arranging a bunch of carnations use some carnation foliage and buds mingled in between the flowers and sometimes adiantums may be added."

Mr. Smyth also touched briefly on the arrangement of funeral designs, opera and other bouquets, urging a loose, graceful arrangement in every case as against stiffness and formality.

In the discussion that followed Mr. Bentley spoke of the necessity for a greater variety and quantity of foliage than now supplied by the growers. For himself he had no use for smilax except for festooning. He considered it too stiff and harsh when cut into short pieces and used as commonly employed in arrangements of flowers. When the necessity of a more varied and larger supply of foliage was mentioned to the growers they acknowledged the demand but expressed the belief that patrons were not be willing to pay a price that would make its production profitable. The speaker claimed that this was a mistake, that the better class of flower buyers appreciated the use of foliage and were willing to pay what it was worth. As a retailer he was willing to pay an adequate price for such material feeling sure that he could use it profitably.

Matters not covered by the essayist were also brought up and discussed by various members, but as Mr. Bentley responded favorably to an invitation to read a paper at the next meeting covering these points we shall wait for that before reporting further.

It was certainly a most interesting discussion and a vote of thanks was tendered to Mr. Smyth for the able essay which paved the way for it.

A resolution urging upon Director-General Davis the appointment of James D. Reynolds, of Riverside, Ill., as Chief of the Horticultural Department of the World's Fair, in the event of his finding it necessary to present another nomination to the Board of Control and the local Directory, through the failure of the latter to confirm the present appointee, was unanimously adopted and the officers instructed to lay the same before the Director-General.

At the adjourned session of the club Mr. A. McAdams covered himself with glory by accumulating a score of 226.

The market last week was fairly active; medium and poor grades of flowers were plenty, but little if any really good stock.

The extremes in the weather—from summer heat in the morning to a freezing temperature in the afternoon—has been very trying to the growers, and roses in particular show the effects in mildewed foliage and crippled flowers. Carnations also show signs of going out, the blooms are getting small and poor.

Outdoor valley still continues plentiful and of fairly good quality. Peonies are coming in freely, especially the old red variety, and white and pink of various shades are making their appearance. These flowers come mainly from southern Illinois and Indiana.

The first Cape Jasmynes (gardenias) appeared in the market last Saturday. The flowers were shipped from Mobile, but owing to bad packing were rather poor when received.

Before bidding good-bye to the tulip for this season we can not refrain from mentioning some "parrots" cut by Chas. Northrup, of La Grange. A couple of pairs that contained some 300 of these gorgeous flowers, with stems fully two feet long, made a magnificent show.

The committee of the Directory of the World's Columbian Exposition is reported to have a bushel basketful of protests against the confirmation of the present appointee as Chief of the Bureau of Horticulture. The committee has not yet made its report to the Directory, and probably no action will be taken for a week or more.

About St. Louis.

I can not help noticing how much progress has been made in St. Louis since five years ago. The cut flower stores are equipped equally as good as those in any other large city and the flowers are equal to the flowers in Chicago.

I dropped into several stores in cog, and noted how business was being conducted and concluded that St. Louis is not so slow after all. In some places I could not hide and "Mr. Robinson" would not go. At the Jordan Floral Company for instance, I met Mrs. Jordan and that ended the Robinson. It was my privilege to see some good pieces of floral work, equal to the best. Our ex-president extended to me all the privileges of St. Louis, for which I was very thankful.

The Elstead Floral Co., of which Mr. Kehrmann is the moving spirit, had a decoration (at the Southern Hotel) of floral parlors, and when I saw man after man hugging palm after palm up stairs my curiosity prompted me to follow and I had the pleasure of seeing a very simple and unique decoration without even suggesting an improvement except that I wished the rooms were larger so that more material could have been used.

At Young Bros. they complained of being entirely used up from the rush of business for the past four months, necessitating of course a vacation at the sea side of about the same number of months.

The plants offered in the public market places must be improved upon before there is satisfaction either to the seller or the buyer. When will the time come so that growers will give their plants room to develop properly. Some of the plants looked to me as though they had been grown in the basement of a Chicago sky scraper, and that's wrong.

St. Louis and the World's Fair. The World's Fair will have an exhibit from St. Louis that will be a credit to the country. I visited the establishment of J. W. Kaufman, Esq., on Lindell avenue, where I saw a fine collection of orchids and palms, under the care of John Armsby (everybody who knows him calls him Jack), and he said that Mr. Kaufman would be delighted if he could help the World's Fair by a contribution however small.

Then I went to see Mr. D. S. Brown (gardener, Mr. Wurst). Mr. Brown is a true lover of plants. He has a plant of Caryota urens that he has raised which is now 42 feet high. I asked Mr. Brown whether he would not give this grand palm to the World's Fair, his reply was, yes, with the greatest of pleasure; a plant that is superb and unique. Mr. Brown has a magnificent collection of palms, pretty nearly complete. I espied a fine plant of Sealthia elegans over twenty feet high, but my modesty would not allow me to ask him for that also, but I

have an idea that that sealthia will be in Chicago at the proper time. Mr. Brown's collection of aroids is the best in the country, and his orchids are in splendid condition; his arides, vandas and saccolabiums are superb.

No horticulturist, and I mean horticulturist whether he grows roses or palms or radishes or oranges or water melons or Venus fly traps, can afford to go to St. Louis without visiting that great and glorious institution, Shaw's Gardens. I go without a meal to see it, if needs be, every time I go to St. Louis. It is some years since I and the other parent of the Society of American Florists were there together, and I was astonished at the great strides that have been made. I dropped in on Mr. Gurney (who everybody knows has been in his position as superintendent for the past 35 years) and found him very busy making up his report for the board of managers. I did not want to intrude on his valuable time and told him so, but we lingered a minute and then he says, "When did you hear from Smith-Botanic Smith?" I said, "I never hear from Smith any more than you do, as it is a well known fact that if ever Smith writes a letter each line is worth a farm." So I says to Mr. Gurney never mind about Smith what are you going to do for us in the World's Fair? His reply was this: "Well, we can not do very much I fear, but I'll tell you what we have here. We have the most complete collection of economic plants perhaps in the world, not even excepting Kew." So I plied Mr. Gurney and he feared nothing could be done, but after a while we visited Professor Trelease, the chief, and this is what was arrived at. The Professor said that any plants that they had in duplicate he thought could and would be spared for the World's Fair. Would not the noble Shaw endorse what has been proposed, what a monument to him it will be! I hope I shall see every plant and reverie it as much as the memory of Columbus.

Mr. Gurney told me that Mr. Trelease was beloved by everybody, and that's right.

I noticed in the beds and borders some old fashioned tulips and so asked how old they were, reply: 35 years, propagated right here. I could detect some of the aristocracy of the Dutch period, bizarres, by-blooms, flakes, sels and breeders on long stems, of all colors except blue, sweet scented as violets, lasting a month or nearly in flower, old fashioned, but substantial. Mr. Gurney told me that when he first landed in the gardens all the temporary plants that were there was one Cinnam amabile and eight geraniums with scarlet flowers. I was rather surprised to hear Mr. Gurney say geraniums of course.

By this time I had spent an hour and a half and I am sure 'twas hard for Mr. Gurney to say good night in spite of his report.

JOHN THORPE.

Buffalo.

There was a good attendance at the meeting of the Buffalo Florists' Club on Tuesday eve, 12th inst., which was held at the Tift House, pending the fitting up for occupancy of new quarters for the club.

Considerable interest was manifested in matters pertaining to the coming chrysanthemum show and a report of a committee that had been appointed to make recommendations on ways and means etc. was received. The salient points of the report which was adopted are:



IN THE TERRACE GARDENS, RICHMOND, ENGLAND.

The securing of subscriptions to a guarantee fund of not less than \$2,000, also deficiency subscriptions at same time from persons who preferred, so subscribing, to going into a guarantee fund subscription. This to be gone at directly and prizes to be spread and added to the former issued preliminary list of classes.

A special reception feature of the opening day of the show consisting of invitations, an advanced price of admission for this day and the employment of a special orchestra. All details to be carefully formulated, arranged and provided for. No person not included in special invitations will be barred from admission on that day, but a uniform rate of admission will be charged to all.

Strict enforcement of all rules by the hall committee, especially regarding the control of all exhibits. The matter of selling flowers at the show was brought up and laid on the table for one month.

The details and management of the show was given into the hands of the managing committee, with power, and also with power to add to their committee for this purpose.

The announcement that a fakir hailing from the Hub had applied for street license to peddle flowers, the doing of which has as yet not wearied the eyes of the craft here, created something of a sensation and brought out vigorous discussion and plenty of sentiment against such encroachment, and Adams, Long and Pickelman were promptly appointed a committee to get up and present a petition to our honorable mayor against the issuing of such license. They were also instructed to take any other vigorous legitimate action looking to the utter annihilation of the bean eater's intended inroads here.

J. Blauuw, of Boskoop, Holland, was present and made remarks on the condi-

tion of forcing stocks, etc. abroad, also firing a light shot at the provisions of the McKinley bill as affecting their exportations.

Fred B. Lewis, of Lockport, N. Y., was elected a member of the club.

At a recent former meeting of the club Prof. J. F. Cowell, who recently stepped from the rank of honorary member to that of an active one, briefly outlined his method of propagating chrysanthemums from single eye cuttings. He should give this to the craft through the press columns, and illustrated, it without doubt being an acquisition as a method in propagating.

A revised constitution and by-laws recently adopted, and on more strict lines on payment of dues than formerly existed, is doing the business to a nicety. The earnest members whose influence is beneficial can not bear thought of forfeiting their membership, so they pay, and the club becomes relieved of carrying along dead wood membership to no purpose, as they are soon dropped from the list in case of non-payment of dues. An additional office of financial secretary was also created, his duty including all receiving of money, drawing orders and notifying members of meetings.

J. W. Constantine has notably grown beyond his former sobriquet of the "amateur member" by showing up a very large lot of carnation blooms. Thousands and thousands have found their way recently from his houses at Hamburg to the retailers' counters in the city.

The visit of our former townsman, the Hon. Grover Cleveland, to this city this week called forth some effects in decorating. Christensen held sway in Music Hall on Monday when the G. Y. M. A. gave an entertainment in honor of the city's guest. The stage was decorated

with plants and the front of the boxes festooned with smilax and flowers.

At the citizens' dinner of 150 plates, given in his honor the same evening at the Hotel Iroquois, Long furnished the decorations, consisting simply of plateau baskets filled mostly with roses, while a large quantity of smilax was used on the tables in addition. E. J. Buxton, of the Black Rock District, decorated the new headquarters of the Cleveland Democracy on Washington street, which were formally opened by a reception on Tuesday evening.

L. B. D.

Boston.

The cut flower trade is dull, very dull for the season. This is evident from the large quantities on the street every morning looking for a purchaser at any price and the great heaps of rose buds and carnations displayed all along the sidewalks in the most frequented streets every evening by the swarms of street fakirs, as well as from the very general complaints of the retailers. Outdoor lilacs and lily of the valley are now in full blast, but tulips and daffodils are gone.

The general depression in the business does not extend however to the spring plant trade judging by the crowds that frequent the auction rooms and the prices that are obtained for really good and desirable plants. Six to ten cents for common geraniums and fifteen to twenty-five cents for the newer kinds does not sound much like "ruinous auction prices." Hydrangeas in bloom are also selling well and there seems almost no limit to the number that can be disposed of.

The long delayed and much needed rain has come at last, giving the parched lawns and stunted looking shrubbery a new lease of life and putting an end, it is

to be hoped, to the longest dry spell on record for this time of the year.

The Village Improvement Society of the town of Winchester, a suburb of Boston, has inaugurated the very commendable practice of distributing to the school children flower seeds and bulbs, with the offer of certain premiums to those who excel in the culture of the same. The children have entered into the scheme with great enthusiasm and the general introduction of the plan throughout the country would undoubtedly result in a great benefit to the seed and plant trade. Try.

W. J. S.

Correction

ED. AM. FLORIST:—Permit me in justice to Mr. W. S. Allen to correct a slight error in issue of May 7, in reference to the prize for corsage bouquets at N. Y. C. Club's exhibition. My prize, a silvercup, was offered for two best bridesmaid's bouquets, which was also awarded to Mr. R. A. Merritt, but the prize for corsages, etc. was offered by Mr. W. S. Allen. New York, May 11. Ed. C. HOKAN.

[A correction touching the same matter was received from Mr. John Young in time for last issue and further correction is hardly necessary. Of course Mr. HOKAN did not know this when his note was penned and as the disclaimer of undue credit comes most gracefully from him we give it space.—Ed.]

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advts. not admitted under this head.

SITUATION WANTED—Experienced in all greenhouse work, 3 years' single. Address: CHAS. K. care American Florist.

SITUATION WANTED—By a German cut flower grower. Rose specialty. Single. Good references. Full particulars. T. S. ANDERSON, Florist.

SITUATION WANTED—By a man of 30; good grower of carnations, chrysanthemums, etc. Would like to work on shares. Address: N. J. care American Florist, Chicago.

SITUATION WANTED—By lady who has had some experience, a situation to assist in cut flower work for city trade. Address: HORTON, care American Florist, Chicago.

SITUATION WANTED—By an Englishman, single, 8 years 10 years as manager or foreman, can furnish the best of references. Address: R. C. care Wm. J. Stewart, 67 Bromfield St., Boston.

SITUATION WANTED—By single man, 10 years' experience in the greenhouse business. Speaks French and German, but little English. Address: GARFIELD PARK ROSE CO., 138 Madison St., Chicago.

SITUATION WANTED—By a thorough, practical S. man as head gardener or manager of a large estate or commercial place, experienced in all branches of the art, particularly qualified in roses, fuchsias, carnations, clematis, delphiniums, and landscape gardening. Unexcelled in orchid culture. A successful hybridizer. Wide knowledge of vegetable and crane culture. Only a first class place. Married, small family. 20 years' experience. No 1 references. Address: C. L. S. care American Florist, General Delivery, Pittsburgh, Pa.

WANTED—A good sober, single florist, good rose grower, to take charge of place. Address: A. H. BAKER, New Centre, Ill.

WANTED—Foreman for commercial greenhouses. Good man. Address: S. VAN NELSON & SON, 275 North Paulina St., Chicago.

WANTED—To rent 4 or 6 greenhouses in or near Chicago, with or without stock. Address: T. G. care American Florist, Chicago.

WANTED—Two men who understand general greenhouse work, steady job for right men. Address: P. B. care American Florist.

WANTED—Information of Michael Wilmut by his brother P. Wilmut. Address: R. B. BAKER, 1111 Stratford P. O., Chester Co., Pa.

WANTED—A florist who thoroughly understands roses and who is well up in floral work. Address with ref. checks. G. VAS BOCHINSKY & BRO., Kalamazoo, Mich.

WANTED—A good greenhouse worker; must understand the business; must be sober and industrious—single preferred. Good position and would place to the right man. S. S. S. care American Florist, Chicago. D. B. WOODRUFF, Macon, Ga.

WANTED—Immediately, man to take charge of greenhouse. Must be sober, industrious and well acquainted with all branches of the floral business. None but good men need apply. Write giving references to ASHLERST FLORAL CO., Aberdeen, Nova Scotia.

WANTED—Man for 2 years or more. Must be steady and understand forcing roses, carnations and all winter blooming bulbs. Cash board with owner. State salary wanted by the year and references. A nice place for a good man about June 15th. Address: J. H. BOY, care American Florist.

WANTED—To loan several hundred dollars in the florist business with security and interest. By a respectable lady with good business qualifications, where she could be employed as saleslady with fair salary, or would take charge of branch store. Best of reference given. Address: A. A. 3102 Olive street, St. Louis, Mo.

FOR SALE CHEAP—Locomotive steam boiler, 20 horse power. For further particulars, address JUS. F. SMITH, P. O. Box 10, Burlington, N. J.

J. G. VAUGHAN, CHICAGO.

CLOSE 'EM OUT.

CYCAS STEMS.

TUBEROSES, PEARL, medium, all flowering, \$4.00 per 1000

L. AURATUM, good, \$7.50 per 100

ROSE, MME. HOSTE, fine, 2 1-2 inch, \$5.00 per 100

DAHLIA PLANTS, splendid stock.

CHRYSANTHEMUMS, complete collection.

PALM SELDS. Per 100 per 1000

KENTIA BELMOREANA, \$1.75 \$15.00

Musa Ensete, 1.75

Cocos Weddelliana, 2.75

Brahea Filamentosa, .25 1.00

Chamerops Humilis, \$1.00 per lb.

" Elegans, 1.25 "

Latania Borbonica, 1.00 "

J. G. VAUGHAN, CHICAGO.

FLORISTS' STOCK.

English Ivy, 2 1/2-inch pots, Per 100
Smilax, Dianthus Heddegrain, Lobelia Coronilla,
Palace, Sweet Alyssum Tom Thumb, Silene,
Andromeda Tom Thumb, Calliope, 60

Cineraria, dwarf, 4 to 6 leaves, 1.50

Cyclamen persicum, 1.50

All the above are thrifty and strong. Cash with order, or will exchange for carnations, coleus, alternanthera or other stock.

EDENWALD FLORISTS, Hemsplead, N. Y.

Tuberous Begonias

Separate colors, per 100, \$3.00; mixed, \$2.75. Double, \$4.50; mixed, \$4.00.

BRAUER & RICHTER, McConnellsville, O.

I CAN NOW BOOK ORDERS

For the following pot grown Cosmos, Asters, Mignonette, and Lobelia; 2000 plants now ready. ORDER EARLY. Try it once, you will lose nothing, and may gain by doing so. Write for prices. Watch the FLORIST. Cash with order.

W. T. STEPHENSON, Petersburg, Ill.

BUSINESS OPENING.

For sale cheap, general florist's business stand, Capital required, about \$1,000. Established trade. City 25,000 (growing). Splendid shipping facilities. Four houses. Land for sale or will lease. If you mean business, address

E. L. KOETHE, Zanesville, O.

Lock the door BEFORE the horse is stolen. Do it NOW!
JOHN G. ESLER, Searcy, H. A., Saddle River, N. J.

ROSES OF FLORISTS' STOCK.

All leading varieties of Teas, Noisettes, etc., 2-inch, \$4.00 per 100.

H. P.'s, purchaser's choice, 2-in. \$6 per 100.

H. P.'s, our choice, 2-in. \$5 per 100.

Full assortment of miscellaneous, bedding and other stocks not mentioned below.

Aloysia citrodora, Anthemis coronaria,

Abutilons in variety, Chrysanthemums,

good varieties, Hydrangea Thomas Hage,

Hortensia, Funicularia, grandiflora, Holly-

berries, Pilea, Salvia splendens, and Violet

Marie Louise. All at \$4 per 100.

Verbenas, Vinca, Lobelia, Heliotrope, Coleus

and Geraniums, ass't. at \$3 per 100.

Latest Novelties in Geraniums, 20 cts. each;

\$2 per dozen.

Carnations, older varieties, \$3 to \$5 per 100.

Pelargoniums, \$6 per 100.

Fine assortment of Fuchsias, 2-in. \$3, 3-in.

\$6, 4-in. \$10 per 100.

Dracena terminalis, 4-in. \$3, 5-in. \$4 per doz.

Red Branched Hydrangea, 25 cts. each.

GEO. W. MILLER, 1748 N. Halsted St., CHICAGO.

Cheap. Cheap.

TO CLOSE OUT OUR STOCK.

Per 100
Dahlias, dry roots, choice mixed kinds \$2.50
Hibiscus, named vars., 2-in. pot plants 3.00
" 3 and 4-in. pots, fine stock, 5.00
Rose Geraniums, 3.50

Moon Vines, strong, 3.00

Crotons, 2-in. pots, in variety, 8.00

Coleus, a big lot, all kinds, \$25 per 1000 3.00

Alternantheras, big stock, all kinds, \$25.00 per 1000, 3.00

French Cannas, 8.00

Chrysanthemums, 100 named sorts, 1.00

Also a full line of Greenhouse and Bedding Plants except Geraniums and Carnations.

H. W. WILLIAMS & SONS, Batavia, Ill.

DAISY SNOWFLAKE

At a great reduction for the next 30 days to give every florist a chance to secure some of this profitable Daisy. Order early as the stock is going fast.

Fine, strong plants by Express, \$4.00 per 100; free by Mail, \$1.00 per dozen.

FRED SCHNEIDER, Wholesale Florist,

Weymouth, Conn. ATTICA, NEW YORK.

ONE HUNDRED THOUSAND Marie Louise Violet Plants,

WITHOUT DISEASE.

Ready May 15, \$4.00 per hundred.

GARLAND BROS., Des Moines, Ill.



Plants, Bulbs, and

Requisites. They are the

best at the lowest prices.

Write for the latest and best quarterly mailed free to the trade only.

HENRY A. DREER, Philadelphia

FOR DECORATION DAY.

Strong, healthy plants in bud and bloom. Geraniums, South Park strain, 2-in. pots, 80 per 100; 4-in. pot plants, \$10 per 100. Feverfew from 4-in. pots, \$10 per 100. Alternantheras, 2-in. pots, \$5 per 100. Fuchsias, very fine, \$10 per 100. Hydrangea Okasaka, 3 1/2 in. flowers, 80 per 100.

JOHN G. HEINL, Terre Haute, Ind.

Surplus Stock!

FOR SALE CHEAP.

PERLES, BRIDES,

C. MERMETS, BON SILENES,

AND SAFRANOS.

WRITE FOR PRICES.

JOHN BREITMEYER & SONS,

Cor. Gratiot and Miami Aves.,
DETROIT, MICH.

ROSES.

We still have ready for immediate shipment, in excellent condition, a fine assortment and true to name:

50,000 ROSES in 2-inch pots, \$35.00 per 1000, our selection; \$40.00 per 1000, your selection.

Send your list to be priced for everything in the FLORISTS' line. Satisfaction guaranteed. Catalogues upon application.

Address **NANZ & NEUNER,**
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ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots. The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

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ROSES.

All the best varieties for forcing, and also for bedding, in 2 and 2½-inch pots, \$1.50 per 100; \$40.00 per 1000. Own selection, \$35.00 per 1000. Roses in 3, 4 and 5-inch pots at lowest rates. Also greenhouse and bedding plants.

Price list free on application.

Address **A. LAUER,**
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IMPORTED H. P. ROSES,

Worked low on the Manettia Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

E. G. HILL & CO., RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAPLES:

ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.

1000 La France, 2½-in. pots, \$40 per 1000
500 Perles, 2½-inch pots, \$4.50 per 100
800 Gontiers, 2½-in. pots, " per 100
500 Brides, 2½-in. pots, " per 100
5000 Verbenas in bloom, \$35.00 per 1000;
\$4.00 per hundred.

DE WITT BROS., Bristol, Pa.



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BY

Seedsman

Waban Rose

READY MAY 15.

From 2½-inch Pots.			From 4-inch Pots.		
1 Plant,	\$ 1.00	25 Plants,	\$30.00.	1 Plant,	\$1.50.
12 Plants,	9.00.	500 Plants,	175.00.	12 Plants,	15.00.
50 Plants,	51.00.	1000 Plants,	330.00.	25 Plants,	25.00.
100 Plants,	50.00.				

The following Agents have been appointed to sell the Rose in the respective territories given below:

WM. J. STEWART, 67 Bromfield St., Boston, Mass., for the New England States (except Connecticut) and Quebec.

JOHN N. MAY, Summit, N. J., for Connecticut, New Jersey, New York, Michigan, Indiana and Ontario.

ROBT. CRAIG, 49th and Market Sts., Philadelphia, Pa., for Pennsylvania, Ohio and all Southern States, east of the Mississippi River, and District of Columbia.

J. C. VAUGHAN, P. O. Box 688, Chicago, for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi River and Canadian Territory west of Ontario.

EUROPEAN AGENTS: **WM. PAUL & SON, Waltham Cross, England.**

ROSES. * ROSES.

WABAN, SOUVENIR DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other NEW and Standard Varieties of TEAS; Hybrid Remontant, including HEINRICH SCHULTHEIS, which is by far the best early forcing Hybrid. This is the variety which MR. JULIUS ROEHRS has forced so successfully for the past three years. Also all the best varieties of

HYBRID TEAS, CHINAS and BOURBONS.

For forcing, bedding, etc., etc., all of which I have an EXTRA fine stock now ready for shipping at prices as low as any one can produce such stock for. NEW PRICE LIST TO THE TRADE NOW READY.

JOHN N. MAY,

SUMMIT,

Mention American Florist.

NEW JERSEY.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants, Catalogue of Prices
Now Ready.

ROSES. Have a few thousand surplus of well grown MERMETS and BRIDES.

\$5.00 per 100; \$40.00 per 1000. This stock is extra fine.

ALSO THE VERY BEST IMPORTED FLORISTS' FLOWER SEEDS.

Send for list.

H. W. BUCKBEE, Rockford, Ill.

ROSES FOR FORCING ROSES

Fine Plants of the Leading Varieties from 4-inch pots, including BRIDES, MERMETS, HOSTE, GONTIERS, PERLES, NIPHETOS, DUCHESS OF ALBANY, METEOR, CLOTHILDE SOUBERT, Etc., Etc.

ELLWANGER & BARRY,

MOUNT HOPE NURSERIES, ROCHESTER, N. Y.

ROSE PLANTS

by the thousands. Clean, strong and healthy. Ready for prompt delivery.

Trade List upon application.

Address **GERMOND & COSGROVE,**
Rockland County, SPARKILL, N. Y.

20,000

PERLES, PAPA GONTIER, \$4.00

MERMET, LA FRANCE, per

and BRIDES, 2½-inch pots, 100.

Nice, healthy plants. Address

THE FLORAL EXCHANGE,

614 Chestnut Street, PHILADELPHIA, PA.

We have about thirty-five thousand (\$5,000) of the leading,

FORCING ROSES,

which we quote at \$4.00 per 100, 2-in. pots.

Excepting Duchess of Albany, Souv. de Wootton and Wm. Francis Bennett, which we quote at \$7.00 per 100.

L. A. CASPER, Council Bluffs, Iowa.

FINE PLANTS OF THE FOLLOWING:

Am Beauty, Mermets, Perle, Niphetos, Gontier,

MAIRIE LOUISE VIOLETS

COLETS, ass't. BEGONIAS, REX and METALLICA.

GERANIUMS, ass't. at low prices on application.

SAMUEL DAVIES, 72 Perkins Ave., Utica, N. Y.

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Subscription \$1.00 a Year. To Europe, \$2.00.

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 Inch, \$1.40; Column, \$14.00.
 Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
 26 times, 20 per cent; 52 times, 35 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in those pertaining to these lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A SAMPLE of the "Perfection plant label" has been sent us by the manufacturers, Messrs. M. & R. O'Brien, Pittsburg, Pa. It consists of a short bar of malleable metal which can be used either as a standard or a hanger, a place being provided for the holding in a horizontal position of a heavy white glass label with the name printed on and apparently baked into the glass. It is a very handsome appearing label and the materials are such that it can be produced in large quantities at a moderate expense. This label will be very useful, especially in conservatories.

WE ARE much pleased to note the largely increased number of growers who are keeping accurate records of blooms cut from a given space and number of plants. We hope that the number will be still further increased, and that soon at least the majority will be guided in their future operations by actual records of past accomplishments instead of guesswork.

SOME BLOOMS of his new carnation Mme. Cusin are sent us by Mr. John Mcowan, Orange, N. J. The name is evidently given it on account of the resemblance in coloring to the rose of the same name, though the carnation is flaked as well as margined with carmine. It is certainly a very pretty flower.

MR. H. W. BUCKBEE and wife, of Rockford, Ill., are visiting in Los Angeles, Cal., and took a very active part in the recent great rose festival held there. The Los Angeles daily papers speak in eulogistic terms of the assistance given the management of the affair by both Mr. Buckbee and his wife.

SOME specimen blooms of the new white petunia Mrs. Harrison have been sent us by Wilson Bros., Springfield, O. They are of large size, very double, deeply fringed, white with a slight tinge of purple on the edges. The flowers are very effective.

SPECIMENS of *Spiraea astilboides* and *S. japonica grandiflora*, for which they were awarded a silver medal at the May exhibition of the Massachusetts Horticultural Society, are sent us by Messrs. Rea Bros., Norwood, Mass.

THE Minneapolis Florists' Club has issued a schedule of prizes for its chrysanthemum show, November 10 to 13 next. Copies may be had on application to the secretary, Mr. E. Nagel.

SOME pansies of good size and very rich colors, especially the purples, are sent us by Mr. I. P. Sorenson, gardener to F. R. Hawkins, Mountainville, N. Y.

WE ACKNOWLEDGE the receipt of a copy of the transactions of the Worcester County Horticultural Society for 1890-91 from the secretary, Mr. Edward W. Lincoln, Worcester, Mass.

WE HAVE received from Mr. J. B. Heiss, Dayton, O., a bloom cut from a sport from the La France rose which seems to be identical with Duchess of Albany.

SOME flowers of seedling cannas raised by Mr. A. Peley, Fort Lee, N. J., are sent us by that gentleman. They are of good form and colors.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

News Notes.

H. P. JENSEN, assignee, St. Paul, Minn., advertises to sell to the highest bidder, June 10, the stock of A. S. Swanson, insolvent.

UTICA, N. Y.—At the meeting of the Utica Florists' Club held May 13 it was decided to hold the second annual chrysanthemum show November 11 to 13. A list of prizes will be offered.

WM. HORLACIER, of Junction City, and Margrave & Ward, of Hiawatha, Kan., met with a small loss by hail on the 2nd of May. Both are insured in the Florists' Hail Association.

TUCKAHOE, N. Y.—The greenhouses of John P. Shelley were destroyed by fire the morning of May 7. Loss on stock and structures estimated at \$15,000, insurance only \$1,700. He announces that he will continue business as usual and will fill all orders that were not shipped before the fire occurred.

TOLEDO, O.—The remains of the late Thomas Temple, who was drowned October 23 last while yachting, were recovered May 7. Though the body was much decomposed the features were recognizable. The shock of the sad accident last October has been revived by the recovery of the body and his family have the heartfelt sympathy of their numerous friends both in and out of the trade.

CINCINNATI.—The 31st regular monthly meeting of the Cincinnati Florists' Society was called for Saturday eve, May 9, at Parlor A. Burnett House, but owing to the rush of business on the market there was not a quorum present. Cut flowers at present are very cheap and the supply is far in excess of the demand; our retail florists here are not crowded with work. The orchid display of F. T. McFadden at Rosebank is certainly very fine, one of the specialties being a pure white cattleya which is certainly very beautiful.

MONTREAL.—At the meeting of the Montreal Gardeners' and Florists' Club held on the 12th inst. it was decided to offer for competition at the next chrysanthemum show a silver challenge cup open to all competitors. The conditions will be published later. The show will be held in the Windsor Hall, November 11 and 12 next. Several of the boys are trying their hand at growing specimen blooms this year so competition promises to be good. J. Doyle showed a plant of *Gloriosa* bearing about 40 buds and blooms. The blooms were of fine size and quality. He has several other varieties in bloom at present. The report from the late spring exhibition showed a balance of \$133.05. Weather has been very cold and everything late in consequence.

Coming Exhibitions.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

June 29, Hamilton, Ont.—Rose show Gardeners' and Florists' Club of Hamilton.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 2-8, New York.—Chrysanthemum show Madison Square Garden.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 3-6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society.

November 10-12, Pittsburg—Chrysanthemum show Pittsburg and Allegheny Florists' and Gardeners' Club.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

November 11-12, Worcester, Mass.—Chrysanthemum show Worcester County Hort. Society.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society.

November 11-12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club.

November 11-13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society.

November —, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore.

November —, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society.

November —, Utica, N. Y.—Fall exhibition Utica Florists' Club.

Something for the State V.-P's to do.

ED. AM. FLORIST.—Your suggestion that the Society of American Florists print in its annual report a list of all the clubs and secretaries' addresses is, I think, a very valuable one. Such a list, published annually, would be very useful, and I hope the matter will not be overlooked. Each State vice-president could supply the necessary information at the Toronto meeting. Let him write it down and hand it to the secretary and the gathering of the necessary data would be no trouble or expense to the society. J. B.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.

All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 1/2.
ALL SUPPLIES. **WIRE WORK A SPECIALTY.**

A. L. RANDALL,
(SUCCESSOR TO)
C. H. FISK,
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.

E. J. HARMS, Wholesale Dealer in CUT FLOWERS, And Florists' Supplies.

89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese, Wholesale Cut Flowers, 66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
given to shipping orders.

Wholesale Florists

LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

CUT FLOWERS.

The Western Trade Solicited.
Write or Telegraph.

SMITH FLORAL CO.,
77 7th Street S. - - Minneapolis, Minn.

TO EXCHANGE!

By a firm believer in a change of stock
every 3 years; would like to exchange Mer-
mets and Brides, from 2 1/2 and 3-inch pots,
for plants of the same sort in same sized
pots. Good healthy plants. Address

E. M. GIDDINGS, Corfu, N. Y.

Palms and Dracaenas.

The largest stock in the west, at \$5.00 per 100 to
\$1.00, \$2.00 to \$10.00 each. Cycas revoluta, 50c to
\$5.00 and \$10.00 each. Cycas leaves 25c to 50c each.
DRACENA INDIVISA AND VEITCHII,
3-inch pots, strong, 15 to 18 inches, \$8.00 per 100.
Send for wholesale price list and descriptive cata-
logue

W. J. KESSEK, Plattsmouth, Neb.
Mention American Florist.

WANTED.

By June 2th, 300 pink Paeony flowers. 400
strings of Smilax. Send price.

B. E. WADSWORTH, Danville, Ill.

@Wholesale Market.

Cut Flowers.

	BOSTON, May 15.
Roses, Bon Silenes.....	1.00 @ 2.00
" Niphetos Gontiers.....	1.00 @ 2.00
" Perles, Sunsets.....	2.00 @ 4.00
" Mermets, Brides.....	3.00 @ 5.00
" Jacs.....	10.00 @ 12.00
Carnations, short.....	25 @ 75
Carnations, long.....	15 @ 1.50
Valley.....	50 @ 2.00
Panicles.....	50 @ 2.00
Stocks.....	1.00 @ 2.00
Mignonette.....	50 @ 2.00
Heliotrope.....	1.00
Narcissus poeticus.....	50 @ 1.00
Myosotis.....	15.00 @ 20.00
Smilax.....	50 @ 2.00
Adiantum.....	50 @ 2.00
Asparagus Plumosa.....	50 @ 2.00

	NEW YORK, May 18.
Roses, Beauties.....	5.00 @ 25.00
" Hydris.....	5.00 @ 25.00
" Bon Silene.....	50 @ 1.00
" Gontiers, Sours.....	1.00 @ 2.00
" Perles, Niphetos.....	1.00 @ 2.00
" Mermets, Brides.....	1.00 @ 2.00
" Watervilles, Cousins.....	1.00 @ 2.00
" Woottons, Hostes.....	1.00 @ 2.00
" La France, Albany.....	2.00 @ 4.00
" Jacs.....	5.00 @ 10.00
Valley, Zaffodils, hyacinths.....	1.00 @ 2.00
Mignonette.....	50 @ 1.00
Carnations, long.....	15.00 @ 20.00
Smilax.....	50 @ 2.00
Harrisi lilies.....	5.00 @ 5.00

	PHILADELPHIA, May 15.
Roses, La France, Albany.....	5.00 @ 10.00
" Lains, Leizes.....	15.00 @ 25.00
" Mermets, Brides.....	5.00 @ 10.00
" Cousins, Watervilles.....	5.00
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☉ Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

THE NINTH annual meeting of the American Seed Trade Association will convene in Cincinnati, O., on Tuesday, June 9. For particulars, R. R. and hotel rates, write Secretary Jno. Fottler, South Market street, Boston, Mass.

PHILADELPHIA.—Hatton Lake, a formerly well known florist, was laid to rest May 14.

WORCESTER, MASS.—The eighth annual chrysanthemum show of the Worcester County Horticultural Society will be held November 11 and 12 next.

FT. WORTH, TEXAS.—Easter trade here was about 20 per cent better than last year. The stock of flowers was heavier and of better quality than ever before. Harrisii were especially fine.

COLUMBUS, IND.—Mr. Simon Humfeld, now at Cochran, Ind., will remove to this place this summer. His new plant will be devoted to the growing of cut flowers and hardy stuff for catalogue trade.

GERMANTOWN, PA.—At the meeting of the Germantown Horticultural Society held May 14 Mr. Thomas Meehan gave an interesting talk on color and fragrance of flowers and plants. He stated that there were about 100,000 varieties of plants having names and out of that number there were about 10,000 of them having no odor or color nor any particular attractiveness. After Mr. Meehan's address the question of adopting Mr. Woltemate's proposition to hold a chrysanthemum show the coming fall under the auspices of the society was brought up, the time and place to be decided later by the society, he to bear the expense and receive all receipts, if any. He also presented a list of premiums to be offered for the best plants, etc. After considerable discussion the proposition was adopted by a unanimous vote.

SAN FRANCISCO.—The annual flower show of the California State Floral Society held May 6 to 8 was very successful, the display being large and varied. The awards were as follows: Timothy Hopkins—Best and largest collection of cut flowers, a silver cup; best collection of flowering plants, silver medal. Mrs. W. H. Smythe—Best and largest amateur collection of cut flowers, a silver cup; best amateur collection of pelargoniums, \$3. California Nursery Company—Best collection of cut roses, silver medal. H. T. Greenough—Best amateur collection of cut roses, silver medal. H. Yoshuke—Japanese novelties, special premium of silver medal. Warren Cheney—Second best collection of cut roses, bronze medal. Mrs. E. T. Crane—Best collection of pansies, bronze medal; second best collection of pelargoniums, \$2. John Rock—Best collection of pelargoniums, \$5. Mrs. Vestry—Best collection of wild flowers, \$10. Mrs. C. Hohweiser—Best collection of plants, \$25. Mrs. L. O. Hodgkins—For her fine display, \$15. Certificates were awarded to C. Pagh, Mrs. C. Fish, T. C. Hodgkins, Mrs. G. C. Ross, Mrs. R. Townsend and the California Nursery Company for their fine displays.

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 Lilium, —Harrisii,
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6 & 8 North Clark St., CHICAGO.
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Philadelphia.

Business has held out fairly well, stocks of bedding plants are being reduced, while in the cut flower line there are not enough fine roses to go around.

Brunners, Laitings and Jacqs are about all cut out, carnations are plenty and sell well.

The Philadelphia Immortelle Design Co. have erected a three story building at No. 725 Arch street. They outgrew their old quarters, No. 904 Filbert street, and will now have abundant space for their increasing business. The first floor is occupied with office and show rooms, the second is the work shop and the third is filled with stock of all kinds. Mr. Kice, the manager of the company, is an enterprising and pushing young man and under his guidance the company is bound to succeed.

Messrs. Harris, Craig, Lonsdale and Burton held a sale of plants at Young's auction rooms in New York Tuesday, 12th inst. Most of the stock brought good prices.

We do not have an auction house in Phila? Referred to Phila. growers.

Mr. Wm. K. Harris has commenced work on his new plant. He has secured a plot of ground, about seven acres, four squares back of his present location, and will erect this season three houses 20x100 and one 28x100; this latter is for palms and is to be a model of its kind.

Bowling is still the favorite amusement. A gold medal has been struck and offered as a prize for the best average made on the club alleys in three games; this is to be rolled for once a month, and the member winning it the greatest number of times in the year is the owner and champion for that year. George Anderson holds the medal for May, he having made an average of 164½ at the first match, Monday May 11. U.

Having now permanently removed from the Wm. C. Wilson greenhouses to our New Greenhouses opposite St. Michael's Cemetery (a short distance above the old place), we find ourselves with more stock than we can take care of, and would especially mention:

CAMELIAS, from 4 to 8 feet high.

DRACÆNA INDIVISA, in flats, for planting out

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LATANIA BORDICANA, 4-inch pots.

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	High	Wide	Leaves.
1 Senecio ELEGANS.....	13½	10	6
11½	8	7	
1 Latania BORBONICA.....	10	8	12
11½	8	12	
1 Phoenix RECLINATA.....	9	12	10
11½	8	16	
1 Arecia BAKERI.....	4	5	13
1 Damosa.....	4	5	13
1 Pandanus ULLIS.....	5	9	70
1 Ficus ELASTICA.....	10½	5	21
1 Corylia AUSTRALIS.....	10½	5	21

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WANTED.

1000 Asparagus Plumosa; state size and price.

FOR SALE.

1000 Geraniums Mme. Salleroi, good bushy year old stock. Price, \$5.00 per 100; \$45.00 per 1000.

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CARNATIONS: Am entirely sold out. Thanks to the AMERICAN FLORIST.

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In a few weeks I will issue a circular containing a short description of my method of culture for producing the best plants for spring sales with the least expense. It will be mailed to all my customers as soon as issued, and to any others who are interested enough to send for it. I would like every Pansy grower in the country to have one.

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CHEAP CASH OFFER.

	Per 100
Geraniums, strong plants, dbl. & sgl. mixed	\$2.10
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
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Mesembryanthemum Cor. Var. 2 in	60	4.00
Roses, Hermosa, M. Guillot, Mad. Roses, Countess de la Barthe, Cornelia Cook, Camoens Mad. Scipio Cos. Schwarz,	210	60 4.00
Roses, La France, Mermet, M. Guillot, Goutier, 3 in.	75	5.00
chet, M. Niel, The Bride, Souv. de St. Pier and Giant, 2½ in.	60	4.00
Best pink and white single Bouvardias, 2-inch.	60	4.00

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COLEUS Verschaffeltii, Golden Bedder, Golden Verschaffeltii, Sunset, from 2½-in. pots \$30 per 100; \$1.50 per 100. From 4-in. pots, \$5 per 100; \$1 per 100. Large stock plants, \$5 per 100; \$1 per 100. All orders should be accompanied by money, otherwise shipped C. O. D.

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I will have ready to deliver on June 5th 15,000 or 20,000 plants of varieties named above, from 2½-inch pots, at \$1.50 per 100; \$15.00 per 1000. Cash with order.

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Cannas, 4 line varieties, nice bulbs	2.50
Coleus, mixed varieties	2.00
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AMERICAN FLORIST CO., 64 La Salle St., CHICAGO.

A Cactus Society.

EDITOR AMERICAN FLORIST.—The article in the issue of March 26 in the AMERICAN FLORIST in reference to the display of cacti by Mr. Blanc, of Philadelphia, at the spring show of the Pennsylvania Horticultural Society was read with special interest by the members of our society, viz.: "The Baltimore Cactus Society of Baltimore city." This is, to the best of our knowledge, the only society of its kind in the United States. The object is the cultivation of the cacti, and we must say that our efforts thus far have been crowned with success—they far exceeded our expectations. We organized with a membership of 8 in November, 1889, and in April of 1890 were incorporated by the Maryland legislature through the special efforts of the Hon. Theo. B. Fox, Rep. of the Second Legislative District of the state of Maryland. Since then our membership has increased to 28 active and 8 honorary members, which is composed of some of the representative business men of our city including several florists, who have taken up this "hobby," the collecting and cultivating of this rare and beautiful plant, and a few of them have indeed a collection of which they can well be proud. The interest in the community is gradually growing, and the "fever" now seems to attack the gentler sex as well as our brother "cacto-maniacs."

We are banded together as a society for the purpose of promoting the interest in this plant; we will be pleased to communicate with anyone who is interested in its culture and will answer any interogatories regarding them that lie in our power by communicating with our secretary, Mr. Fred W. Lantz, 112 N. Poppleton street, Baltimore, Md. We hold regular monthly meetings, which are well attended, and great interest is manifested by all in subjects brought up for discussion among the members for the promotion of knowledge in the cultivating of this plant and will if agreeable occasionally send items for publication in your valuable paper concerning our meetings and new and interesting points discovered in the cultivation of the plant in which we are so earnestly interested.

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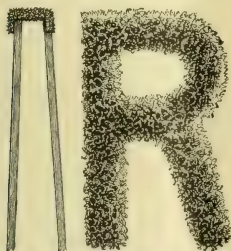
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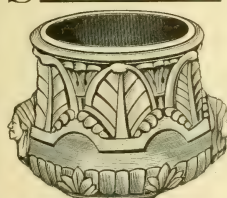
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Our latest improvements in machinery produce a Standard Pot which for lightness, smoothness and durability, has never been equaled. Customers buying of us will

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Size.	No. in Crate.	Weight.
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2-inch.	2,400	250 "
2½-inch.	1,750	250 "
3-inch.	1,400	250 "
3½-inch.	1,200	300 "
4-inch.	800	300 "
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One Way of Advertising.

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In one corner of the adv.—which occupies a large space—appears the portrait of the advertiser and at the side of it in large display type the lines

"DO YOU CATCH ON?"
"TO THIS UGLY MUG,"
"TIS BLANK, THE FLORIST."

This chaste and pleasing way of attracting attention will probably appeal with considerable force to people of refinement, who are the large buyers of plants and flowers.

Then follows the statement that he is the only florist in the place who "makes a specialty of the home trade," and an insinuation that his competitors send all their best plants away and sell to local customers the culls.

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We consider this clear, terse statement very effective in an advertisement at this season.

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BRANCHES: Boston, Mass.; Fort Worth, Texas.
DEPOTS: Boston, Mass.; Fort Worth, Texas.
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FIR-TREE OIL INSECTIGIDE—soluble.

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Soft or rain water is necessary, and Applied in Wood, Tin or Pot Vessels.—Galvanized Iron Vessels must not be used.

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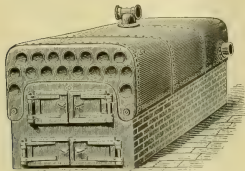
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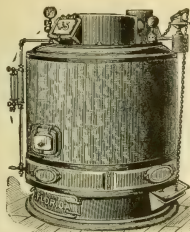
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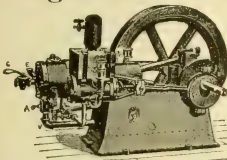
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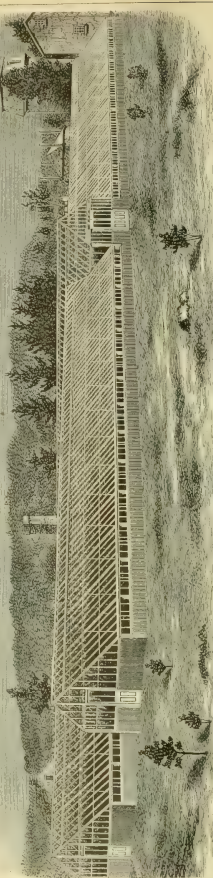
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DELTU, MINN.—On May 6 Gustav Schill, an employe of Stang & Zeigler, the florists, committed suicide by taking strychnine.

CHATHAM, N. Y.—R. E. Shupheld has opened a store on Park Row for the better accommodation of his customers. He will have a department devoted to fruits as well as the usual florist's stock.

ANCHORAGE, KY.—The Anchorage Rose Company has been incorporated with T. C. Holbush as president and secretary and Charles Raynor as manager. The authorized capital stock is \$10,000 but the company may commence business as soon as \$2,000 of stock is subscribed, and paid for in cash. The business of the company will be the buying, propagating and selling of flowers, trees and vines. The life of the corporation is to be 25 years.

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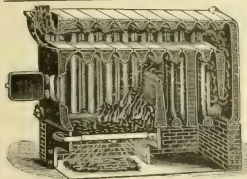
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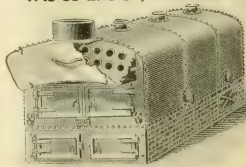
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Vol. VI.

CHICAGO AND NEW YORK, MAY 29, 1891.

No. 156.

THE AMERICAN FLORIST

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M. H. NORTON, Boston, Mass., president; JOHN F. FLOWERS, Toronto, Ont., vice-president; WM. J. SCHWARTZ, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. This seventh annual meeting at Toronto, Ont., August, 1891.

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EVERY MEMBER of the S. A. F. (this means you) in the state of Illinois, Missouri, Wisconsin, Iowa, Kansas, Minnesota, Nebraska and Colorado should personally request his railroad agent to write at once to the passenger agent of his railroad at Chicago, urging him on behalf of your railroad at the next meeting of the Western Passenger Association to vote for reduced excursion rates to the Society of American Florists, for their annual meeting at Toronto, August 18-21, next. See your agent at once and use all your influence to have this letter written to Chicago.

A Famous Massachusetts Garden.

At Milton, one of the pleasant suburbs of Boston, we find the well known homes of Nathaniel T. Kidder, Esq., and his expert gardener, Mr. William Martin.

Mr. Kidder is one of the most enthusiastic patrons of horticulture in this part of the country, as a visit to his Milton estate (where, by the way, horticulturists are always warmly welcomed) will most amply testify. We had the pleasure of a visit one day in the latter part of March.

The estate is small, but stocked to its fullest capacity with material pertaining to our craft. Choice shrubs and hardy herbaceous perennials, to both of which Mr. Kidder devotes ardent attention, abound in the grounds, and the extensive ranges of glass are well filled with the choicest of ornamental exotics. At the time of our visit there were but few flowers in the outer garden to gladden the eye, nothing, in fact, but occasional clumps of snowdrops, crocuses and the winter aconite. But Mr. Martin pointed, with ill-disguised pride, to some preparations in progress, with a view to the formation of a rock garden and the extension of the plantations of herbaceous perennials, which would cheer the heart of any lover of hardy flowers.

On entering the greenhouses we were much impressed with the order and cleanliness perceptible in every department. Much of Mr. Martin's success as a cultivator must doubtless be attributed to the rigid observance of these first elements of good gardening. The plants displayed a wealth of luxuriance which could not have prevailed had opposite conditions obtained a footing.

Stove plants are grown extensively, and they include some very good examples of dracaenas and crotons. Particularly noticeable among the dracaenas were *D. Massangeana*, *D. Butlerii*, *D. Youngii*, *D. amabilis*, *D. Baptistii*, *D. Mooreana* and *D. Goldiana*, all first-class sorts. The last-named plant bore a dense terminal cluster of flowers, something rather unusual. The variegated form of *Ficus elastica* has here been found an extremely useful plant for decorative purposes, as has *Ananas sativa variegata* (the variegated Pine Apple), and *A. Porterae*. *Phyllanthus Lindenii* was another highly ornamental plant which we saw in good condition. The collection of ferns is very rich, especially in adiantums, and we noted a fine specimen of the elegant *Davallia Mooreana*. Referring to the recent discussion in English journals, as to the alleged poisonous or irritating character of this *davallia*, Mr. Martin said he has grown the plant for many years and in handling it has never experienced the smart sensation of pain. A rather pleasing effect is obtained by planting another fern, *Nephrolepis cordifolia*, on the back wall of a corridor which connects two of the

houses. The drooping fronds clothe it with a light and elegant covering of living loveliness.

The orchids are numerous, and that their requirements are fully understood is well borne out by the healthy condition in which we found them. A splendid batch of *calanthes*, judging from their pseudo-bulbs, had just passed their flowering stage, and several exceptionally meritorious varieties of *Lycaste Skinneri* were full of bloom. *Cypripedium insigne* was represented by a grand plant, one which had borne as many as 111 flowers; *C. barbatum Warnerianum*, *C. hirsutissimum* and *C. villosum* were also very attractive. The most conspicuous dendrobiums were *D. Farmeri*, *D. nobile*, *D. Wardianum*, *D. Lowii* and *D. primum*, the first-named being a very pretty specimen. Several pieces of the orchid-like *Utricularia montana*, grown in baskets containing a mixture of sphagnum, peat and crocks, presented a vigorous appearance, and promised to flower freely at an early date.

An intermediate house contained some good hybrid roses and a host of other useful flowering plants, among which we observed *Statice Halfordii*, *Eupatorium ianthinum* and *Agathaea caelestis* (the blue Marguerite) as being unusually desirable and not often met with.

Still more important was the brilliant effect afforded by a large variety of plants in a somewhat cooler house. The gay appearance of this structure was due to the preponderance of well grown azaleas and camellias, cinerarias and cyclamens. Some East Lothian stocks in pots demonstrated the immense utility of these plants for early flowers. The seeds for these had been sown in spring; the plants transferred to the open ground when large enough and taken up and potted early in fall. Here also were such eminently useful plants as *Eriostemon nerifolium*, *Erica Caffra*, *Polygala cordifolia*, *Boronia megastigma*, *Coronilla glauca*, *Grevillea Thelemanniana*, *Haloragchum elegans*, *Chaenostoma hispida* (a compact, bushy little plant with numberless white flowers), *Eurya Latifolia*, *Coprosma Baueriana*, the delightful *Mahernia odorata*, *Spartium junceaum* (Spanish Broom), *Ulex europaeus* (European furze) and *Aphelaxis macrantha* purpurea. All these plants may be depended upon to give a large amount of satisfaction under ordinary greenhouse treatment. It is a rare occurrence now to see a plant of the genus *aphelaxis*. Grand specimens of the New Holland species (by far the most decorative) used to be exhibited at the shows in London and other cities of England, together with equally good examples of *erica*, *pinella*, *dracophyllum*, *episcagnidia*, *aotus*, *genetyllis*, etc., as late as ten or twelve years ago. Alas! The fine old hard-wooded plants have sunk down to a very small circle in the ever-whirling

vortex of fashion. But they will rise again in the deep waters beyond, as the hardy herbaceous plants have done in recent years, and sail proudly in their old haunts and on many a wide new sea. They could be grown to the highest pitch of perfection with one-third the expenditure of time and money now lavished upon orchids. Here is a field with a fortune in it for some wide-awake florist. It was the renowned Josh Billings, I believe, who on being applied to for his autograph, added his signature to the following couplet, quoting the first line from the immortal Bard of Avon:

Thrice is he armed that gets his quarrel just,
And four times he that gets his blow in first.

The first in the field may not always win, but they generally have some advantage over those who arrive later.

Mr. Martin is a very successful exhibitor, scarcely an exhibition of the Massachusetts Horticultural Society passing in which he does not manage to secure some much-coveted trophy for plants, fruits or flowers. Those who visited the show and during convention week of last year do not require to be told of this. The group of plants exhibited on that occasion is not likely to be ever forgotten by those who had the privilege of seeing it. Such results were not obtained by any haphazard system. Earnest forethought and persistent watchfulness were clearly written on every leaf, and it is only by the exercise of these and the assistance and sympathy of such generous employers as Mr. Kidder that success may be achieved.

Cambridge, Mass. M. BARKER.

Practical Greenhouses.

By J. L. DILLON.

[Read before the Florists' Club of Philadelphia at the May meeting.]

"Unacquainted as I am with the papers that have been read before the club, it is with some reluctance, that I choose a subject to entertain you with this evening. No doubt the various plants I grow have been treated and discussed by able penmen than myself; I therefore conclude to select for my subject "Practical Greenhouses."

The successful florist's places (growers, I mean) are, as a general thing, situated widely apart, in favorable localities, and managed by men who give them their whole time and attention, and make them their hobby. These places are often at a distance from a railroad station, or in out of the way places, which make it impracticable to visit them, unless at considerable expense of time and money. The little I may have to say, I hope may bring out discussion, and descriptions of many of these places, which will be of benefit to us all.

In building greenhouses the first consideration is the location. On this will largely depend the work, and cost of building, and in many instances the profits of after years. After many years' experience we would choose a hillside, sloping to the south, with a pitch of 12° to 16°. We would build the houses three-quarter span, 23 feet wide, and when practicable, about 200 feet long. To prevent shading the front benches, the houses should be ten feet apart, which space can be used for a drive-way, or can be covered with glass, and will make a fine house for propagating, or for growing violets, dormant roses and pot plants of all kinds. With a pitch of 20° the houses could be joined together, and no damage would occur from shading.

By sinking the front walk a few inches, and filling up the back walk, we can have

all walks on the solid ground, thereby doing away with the expensive staging, which we have often found dangerous in walking away from the rotting out of the boards and sills. In case of fire these stagings must be regular tinder boxes, often, no doubt, being the means whereby greenhouses are destroyed, whereas, had they not been in use the houses could have been saved.

For growing cut flowers, make the side benches 3 feet wide, walks 2 feet and the middle bench 11 feet, with a walk 1 foot wide in the center. Make raised benches on the sides and the center, which can be made solid or raised, as desired. We make the lower half of the middle bench solid and the upper half raised except where we have the cistern, which we will describe later. Give the house lengthwise a slight fall, say 12 inches to the 100 feet. This will carry off the water in the gutters and walks, and the steam or hot-water pipes can be run through then at an equal distance from the glass and will make the necessary fall, insuring quick circulation. We have in each of our houses, at the lowest end, a reservoir or cistern, into which we conduct the rain-water off of the houses. We make them 8 feet wide at the top, 5 feet wide at the bottom, 5 feet deep and 30 feet long, holding when full 7,300 gallons. In making these cisterns we dig them out, then remove the soft surface ground from around the edges down to where it is solid and on this solid ground we build a concrete wall 10 inches thick, the height required all around, on which we lay our sills for benches. We now give the solid ground (which is often very rough) a coat of cement, composed of one part Portland cement and four parts sand. This is used to fill up the holes and smooth the uneven places. When dry we give the whole inside of the cistern a coat, composed of one-third Portland cement and two-thirds sharp sand. If properly put on there is little danger of the cistern leaking; should such be the case the leaks can be found and easily repaired by enlarging the hole or crack and filling with cement.

From these cisterns we always get pure water for our boilers, saving the disastrous effect of scale, moderately warm water for our roses and other flowers in the winter time and one of them we have turned into a liquid fertilizing tank, using in it in solution nitrate of soda, sulphate of ammonia, sulphate of potash and liquid manure.

Posts (locust if possible) with the part that goes into the ground charred are set 5½ feet apart, against which are nailed boards planed on the inside and painted white, next tarred felt paper, covered and finished with German siding on the outside. For gutter plates we use 10x2½ inch yellow pine plank for bottom, with side strips 2x2½ inches, placed edgewise, kept well painted, and they will out-last two that have been tinned.

To prevent shading as much as possible, we use sash sticks 1½x2 inches, having grooves on the sides to carry off the water; those on the south side 10 feet long, on the north side 7½ feet. In addition to the ridge-board use two pur-lins the length of the house, to support the long sash sticks, size 2½x3½ inches, beveled for the sash sticks to lay on. By placing them 6 feet 4 inches apart, and the same distance from the gutter-plate and ridge-plate, we will have the tops of the upright supports, which we place 8 feet apart, on the upper side of our lower walk, one row in the center of our middle bed, and those which support the ridge-

board on the lower side of our upper walk.

We use ventilators the whole length of the house, 30 inches wide, opening at the ridge. Arms are fastened to one-inch pipe, placed 14 inches below our ridge-board, and attached to our sash, and the sash is raised by levers on our pipe, placed about every 40 feet. In practical use these levers seem to be fully equal to any of the patent ventilating apparatus now in use.

Always use double thick glass, first or second quality. It is much stronger and saves breakage, and will pay for its extra cost in two winters by the saving in heat. As we are in a situation where there is no dust or soft coal used, we butt the glass; first with a Scollay putty bulb, putting in a mixture of ½ each, white lead, putty and oil, on the groove where we lay the glass; after laying the glass we cover the sash sticks with zinc strips, 3 feet long, bent oval, and nail with one inch wire nails, these not only keep the glass solid, and prevent any from blowing out, but protect the sash sticks from the weather and save painting. When there is dust and dirt the glass will have to be lapped, as the dirt goes through the cracks between the glass, and lodges on the inside, making it dark and dirty.

We would heat our houses with steam, and have the necessary valves so as to run one, two or more pipes as needed. If practicable I would place one under the back and first bed; one along the gutters, and three or more equally distant as necessary, hung from the roof of the house, which insures an even temperature throughout all the house.

Our side-hill makes it possible to set our boilers and have no deep ash pit; and no trap to return the water. It protects us from the cold north winds, and makes it warmer for us when the sun shines, thereby saving coal and labor in firing.

We must not forget our force pump; how with 30 pounds of steam, we are able to take the water from our cisterns, and deliver it in every part of our house with such force that all the red spider are easily destroyed, and how by changing cisterns, we can make the plants grow with fertilizing water delivered in every part of the house just as we want it, and where we want it, through the hose.

Neither must the coal-house be forgotten. By placing it up on the hill above the boilers, the coal can be led by chutes down to the boilers, thus saving the handling usually necessary.

In the hasty description given, it has been impossible to give nearly all the good points of this style of houses, but for economy and profit they are all that could be desired, especially for growing cut flowers.

Rare Cacti, Agave, Etc.

At the Shaw Botanic Gardens, St. Louis, I saw a superb collection of cacti and agaves. Among them were some very quaint new forms of mammillaria and echinocactus, the rare *M. sphorocrea*, *Pilocereus Houlettii*, *Cereus pycnophormis* and the charming new filiferous *Agave vestita*, having very pale green leaves margined with pure white and the filaments very long and numerous.

Mr. Garvey informed me that last summer a plant of *Euryale perox* had leaves five feet in diameter, resembling the victoria in appearance. JOHN THORPE.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.



A STUDY IN PINK AND WHITE

A Study in Pink and White.

The basket seen in the illustration is one of a number imported from France. It is made of a beautiful shade of green rush, which harmonizes well with the foliage of the roses and also with the young foliage of the peach. The shape is peculiar but graceful. We can think of no flowers better adapted to such a handle both in color and form.

La France roses were used and contrasted well with the green basket. The natural direction of the branches was changed in three cases, to produce curved lines as a contrast to the naturally straight ones of the boughs. One of the curves will be noticed on the handle at the top, and one from right to left, these two curves have more effect than at first

would be supposed. Lastly the lowest branches are bent in order to have a bit of pink against the green basket at this point. The butts of the branches are placed at different angles and cut in different lengths, which is far better than to have them arranged parallel to each other and cut of the same lengths.

This is one of many baskets we have arranged while the customer is in the store. We often find that doing this not only gives the customer pleasure but is a good way of making a sale when they are undecided what they want.

At no time are intelligent and willing assistants more appreciated. When two can work together upon the same design with entire harmony of thought and action, it gives four hands to one head. In this case while one of our men was

filling with moss, I arranged the cluster of roses. I held a branch of blossoms in position; he made it fast. I bent a branch for the curve; he fastened it with wire. He followed me and fully understood what I wanted and how I wanted it, and I doubt whether a word was spoken between us. I do not speak of this as being anything particularly new, but it is surely a marked contrast to many baskets I have seen filled, when customers were present criticising every flower that went into the design, the florist, meanwhile standing patiently by, wiring or putting a toothpick on every flower and placing it as he was directed. In arranging this basket but five pieces of wire were used, and one can readily understand that it took but a few minutes to finish it. Not a bud or blossom was moved after being once placed.

H. H. BATTLES.

About Floral Designs.

For some years the call for made up designs has been falling off with me, and from reports in the *FLORIST*, this seems to be general all over the country. It has even gone so far that the editors of daily papers have taken up the cry, "away with the designs," to judge from a note in the *FLORIST* of April 30.

In my opinion we need not look far for the cause. We are ourselves at fault. We have gone too far in our efforts to satisfy the popular demand for "original" designs. It can not be denied that thousands of designs have been turned out of florists' shops, which shocked the sensibilities of cultivated people by their hideousness and artificiality, that were a crime against nature. The broken mill-stones, telegraph poles, street cars and what not, in the construction of which thousand of flowers were absolutely spoiled, in response to the demand for "new designs" has in my opinion injured the trade to an extent that it would be difficult to estimate.

We must return to a more natural style of arrangement. In my own business nine-tenths of the funeral designs ordered last year were wreaths, and I am glad to see the wreath come again into prominence. It can be filled in an almost innumerable variety of ways, and there is no more beautiful and appropriate design. It can be made up at any price ranging from \$2 to \$100, and is always satisfactory if tastefully arranged. A well made wreath, pillow or cross is always appropriate and acceptable and can be made up to suit most anyone's taste and still be an artistic success. Let us try our skill on different arrangements of these simpler designs rather than be continually searching for something new in form but harsh in outline. Of course we will occasionally have a customer who will insist on the execution of his or her own ideas, but I question the expediency of permitting anything to go from our stores that will not be a credit to us.

The "original funeral design" described as the heavenly lamp, and which I understand received first premium at the recent exhibition of the New York Florists' Club, may have been, as Mr. Thorpe says, "A unique and very expressive piece of work," but it certainly was not an artistic success. In my opinion we should never attempt to make such pieces. The same flowers arranged carelessly on a table would have been far more beautiful than they were after all the labor wasted in putting them into the shape of a candelabra.

I call to mind a dinner table decoration

described in the FLORIST which was probably most elaborate, beautiful and costly, but it was made in the shape of a wagon wheel. Was this appropriate? Is a wheel in place on a table?

I should like to see these matters discussed in the FLORIST. Am glad to see that the Florist Club in Chicago has taken up the question of the arrangement of flowers and hope that the discussions will be fully reported for the benefit of the readers of the FLORIST. It is certainly a matter of importance to every one in the trade.

ART. G. S. S.

Flowers and Their Color Effects.

In an article appearing in the issue of the AMERICAN FLORIST of February 26 last we considered the theory of color in its adaptation to the arrangement of flowers.

Now, if we would test the strength and truth of a theory, we must put it to the test in practical work and observe the results obtained. Perhaps in some degree we may find our theory correct, and again it may be found in some directions at fault. There is nothing, however, quite so reassuring to our judgment as practical experience.

Suppose then we turn our attention to some of the flowers now in season and study the effects produced when they are placed together under certain conditions.

There are methods of arranging flowers according to color and form out of doors, which would be wholly at fault exercised within doors and vice versa. We naturally expect more refinement and care in the arrangements for our drawing rooms than in those for the garden beds. But just precisely what we look for in either use is good taste and it is good taste which invariably brings about something which is not common-place.

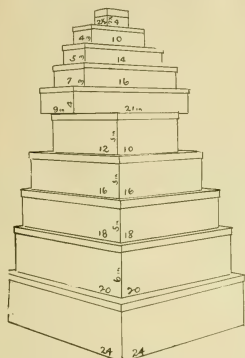
Just now our gardens are filled with tulips; it is a glorious and brilliant family, this royal Dutch company, and it will tax all our ingenuity for its arrangement. Here are some æsthetic plum-purple ones and beyond are some whose petals are delicately rose-tipped; these must not associate with each other, if they do they will quarrel. There is no word which will express the idea of the disagreement quite so exactly. Our purple tulips then are possessed of a peculiar disposition and the light and rosy faced ones are not fit company for them; either they must have the companionship of yonder pale magenta variety or we must off-set their color with the sharp contrasts of yellow or white varieties. Again, we have beside us some brilliant and powerfully colored specimens, which will give us some trouble because (if I may be allowed the expression) they are so "loud-spoken." But we cannot err if we place the yellow beside the white, the oddly slashed and deeply colored ones beside the deep red and the flame beside the scarlet.

Those varieties which are slashed at the edge—one of which is suggestively named the parrot tulip—and those which are dashed with dark stripes of æsthetic color produce most charming effects when mixed with the brilliant single colored varieties. The parti-colored tulip we will find has a confusing effect in large mixed masses and the restful influence of a plain colored variety near it needs no word of recommendation.

And what shall we do with the dainty and airy pink sweet pea? We have forced this summer fairy into an early bloom, we have captured her before her time; Keats says: "She is

"On tiptoe for a flight."

We would better let her remain so and use the airy creature in the daintiest ways for our indoor decorations. The stems together with a bit of pink satin ribbon and let her fly. What an appropriate flower she is for the now fashionable "Pink teas." If she needs a bit of green background what could be better beyond her own natural green foliage than a graceful spray of smilax? Perhaps we do not fully appreciate the value of green in our floral decorations. A glance at the florist's window with its jars of yellow and scarlet tulips massed in separate groups of powerful color would lead us to imagine, if we were unacquainted with the fact, that the flower grew without a hint of green beyond its stem. It certainly



CUT FLOWER BOXES.

must be a false conception we entertain of color if we do not recognize the emphasis which nature lays on her restful greens. They are a necessary background to all her color effects.

Then there are the golden coreopsis with their maroon velvet centers; what an opportunity here for effecting gold and white! I can conceive of nothing more fascinating than the bright faced coreopsis flower mixed with graceful stems of good, old-fashioned white stocks. This is a combination that smacks of our Colonial ancestors. Florists would do well to study the taste which nowadays tends strongly in the direction of Colonial decoration. That means an almost exclusive use of white and gold. Our white carnations, the yellow variety called the Astoria, the white stocks, the golden calendulas and coreopsis, white roses, the yellow roses and the large variety of yellow and golden toned nasturtiums; these are all flowers particularly adapted to the decoration of drawing rooms where the prevailing tones are white and gold. Only let our combinations of form and color be refined and free from conventionality—in a word, let us be natural. Let us be guarded against dangerous combinations; keep the yellow rose away from the coreopsis and the Astoria pink away from either, nor let the nasturtium show its delicate yellow beside the rich calendula.

There are a confusing number of bright colors among our carnation pinks and some of the specimens are wonderfully bright in tone, but dangerous in use with

out the exercise of great care. The Portia, for instance, outshines (especially under gas-light) every red flower that comes near her. It is better to keep her away from every carnation except the white. And it is almost necessary that she should be supported by a generous background of green. Then the Wilder carnation is a dainty bit of pink and is ruinous in effect beside the Astoria. Try her with a bunch of mignonette for company and note the harmonious result. Most any of the carnations will associate agreeably with the white variety and we cannot be too prodigal with the latter.

We must learn the value of white as well as of green, use flowers with the distinct idea that their individual form must be properly visible. Adhere to a principle of simplicity.

In the next article we will consider some combinations and effects among blues and purples, like those in the violet, pansy, hydrangea and forget-me-not, and how best we can relieve flowers of an intense hue.

F. SCHUYLER MATHEWS.

Cut Flower Boxes.

We present herewith an illustration showing the shapes and sizes of the boxes used by Mr. M. F. Gallagher, a Chicago florist, for retail trade. The dimensions in inches are given on each one, the only omission being the depth of the bottom one, which is six inches in depth, this having been accidentally left out by the engraver.

The one at the top Mr. Gallagher calls a violet box, being used mainly for one or two bunches of violets. The next four are rose boxes, being long and narrow, to accommodate from one half dozen to three or four dozen long stemmed roses, without being obliged to bend the stems. The square boxes that follow are for larger quantities of loose flowers or for flat bunches, wreaths, etc. In addition to those shown Mr. Gallagher has the usual boxes for pillows, etc., but those shown are the ones for which he has most frequent use and they are of the sizes that some years of experience have taught him are the most useful in his retail business.

The boxes shown were made to order, of these special sizes. Florists can have them made of the sizes noted, by their local box makers, or if desired they can get them from the party who made those illustrated, and whose card will be found in our advertising columns.

Long Island Notes.

BY WM. FALCONER.

LILY OF THE VALLEY is in splendid bloom. A moderately open position and an annual top-dressing of manure are what it loves. In later localities, what a capital thing it is to have for Decoration Day.

ARMERIA VULGARIS and its varieties, or thrift, as we usually call it, is in full bloom, and it makes the neatest edging of its season. By dividing it in early spring it may be increased in any quantity.

BEDDING OR TIEFFED PANSIES are not used nearly so much here as in European gardens, but we will grow towards them. Those I raised from seed last August are in full bloom; those I raised from seed in February have begun to bloom. Planted out as edgings to beds they are very decided and pretty. They are self, pure white, bright yellow and deep purple.

DOUBLE-FLOWERED PANSIES are more odd than beautiful, but they are very interesting.



FIRST PRIZE BASKET—BY WARENDORF.



SECOND PRIZE BASKET—BY MERRITT.

THE WINNERS OF THE JANSEN PRIZES AT THE NEW YORK SHOW.



BRIDESMAIDS BOUQUETS—BY MERRITT AWARDED THE HORAN PRIZE AT THE NEW YORK SHOW.

SELECTING PANSIES FOR SEED.—Better have a few real good pansies than a host of indifferent ones; then pluck out and throw away every poor pansy in your frame, and if you haven't any very extra pansies throw them all out and spend a dollar for A 1 seed.

MYOSOTIS DISSITIFLORA isn't reliably hardy here, so we grow our large plants in frames in winter to give us flowers in March and April, and our young plants to set out in March for flowering in April and May. The large plants we left out last winter got pretty well killed back, but as the spring advanced they began to grow and for the past three weeks have been full of flowers.

AQUILEGIA CHRYSANTHA ALBA, the new white-flowering golden columbine, a novelty last year, is now in bloom with us

and it is a very desirable plant. The seedlings were raised in spring last year, planted out over summer and left out, and they have now come into bloom—a little ahead of chrysanth, usually. So far the plants are stocky and the flower stems 16 to 20 inches tall, little more than half of what the plain chrysanth usually runs to. And the flowers are large, long-spurred and white, with a tinge of yellow or blue in it. About half of the plants are white flowered and the others yellow, but this large percentage of yellows may disappear with continued isolation and selection. Coming in to bloom so early caused me to think *cœrulea* had a hand in this variety, but as not one of the seedlings have blue flowers, I presume it is chrysanth clear through.

NEW JAPANESE TREE PEONIES.—In the old-fashioned Moutan or tree peonias we have some very handsome large double flowers, and the earliest of all peonias. But these new Japanese tree peonias are single flowered, exceedingly large and a revelation of loveliness and elegance; and in color they range from pure white to silvery and La France pink, and bright glowing crimson. And there are some purple shades among them that I don't like, but you needn't get these varieties. They open wide in the day time and close at night. Some blossoms of our plants by actual measure are 9½ inches across.

DOUBLE PYRETHRUMS.—Aren't they handsome? Pure white, pink, rose and crimson and full double. And they are perfectly hardy. In their way we have nothing finer among greenhouse plants, and they have long, stiff stems, are excellent for cutting and last well. They are increased by division, and, curious enough, some of the finest white varieties are the easiest to increase as they make large clumps that break apart quite easily. Don't you think a big bed of these double pyrethrums in full bloom Decoration Day might help to pay your taxes? Try it.

ROSA RUGOSA ALBA came into bloom May 11, and *R. Kamtschatka* (which is not unlike *R. rugosa*) on the 15th. These are the earliest out-door roses with us this year. We enjoy these early *rugosa* roses very much because the flowers open and remain perfect while they last; about the first of June the rose bugs come in thousands, then we seldom get a perfect rose.

TO SHOW THE HARDINESS of these *rugosa* roses I may state: We had a large dense mass of them several years old, and last year they became badly infested with bark scale; before the winter set in I cut them over clean to the ground which was left exposed. The roots are now sending

up a forest of extra strong shoots, which so far, are perfectly clean.

SPURLESS COLUMBINES.—We now have a race of these with a well-established identity, but they are a detraction and not an attraction to this favorite genus.

HARBY PASSION FLOWERS.—Last winter was not a severe one so far as intensity of cold was concerned, but we had a good deal of sloppy, icy and snowy weather. I left out a lot of "harby" passion flower vines, as *Cucurbit*, *Constance Elliott*, etc., cut them back last fall and mulched about them heavily, but so far not a vestige of a sprout has started from the old roots. Later on some sprouts may appear. Now, under these circumstances they are not hardy here.

SMALL BULBS are harder than large ones. Where we had gladioli growing last summer, the little bulbets that became separated from the large bulbs at lifting time and remained in the earth over winter have come up quite thick all over the ground. Old bulbs get killed out if they are near the surface. *Hyacinthus candicans* is quite hardy and medium sized, and all lesser bulbs live well in the ground over winter, but very large bulbs are likely to rot off.

LAST JANUARY I got a large lot of left-over bulbs of *ixias*, *sparaxis*, *Allium Neapolitanum*, etc. Now, while these are very nice things to grow a few of for cut flowers and greenhouse decoration, I don't think it would pay to grow them in large quantities, because they do not give bulk of blossoms enough for the room they take. So I potted them pretty thickly into 4-inch pots and plunged these close together in a cold frame, protected from hard frost, and left them there till the ground was free from frost in early spring. Then I planted them outside in rows very thickly, and they are doing very well. The *sparaxis* are in fine bloom, the *alliums* opening out, and the *ixias* showing buds. To seedsmen who care to save the bulbs for another year this is a good way to treat them.

WINTERING MONTBRETIAS.—I usually lift a lot of each kind in the fall and store them thick together in a frost-proof cold-frame, and leave the balance where they grew outdoors to live or perish as the winter may devise. In the early spring, I lift out the clumps from the frame and divide and replant them, and they grow freely and blossom beautifully in summer. We are sometimes told the montbretias are perfectly hardy here, but they are not, they are only partially hardy. In a warm sheltered spot and under a mulching they live over winter fairly well. When I mulched the ground with straw or leaves, the field mice completely destroyed all the bulb roots; and a goodly part of them decayed under heavy rotted manure. But last fall I spread a 5 or 6-inch deep layer of old mushroom bed manure over the montbretias, and with complete success, every eye lived and now the old roots are broad thickets of rank "grass." Spent mushroom manure is light and chaffy and does not clog like rotted yard manure, and mice never bother it. It makes a capital mulch for outdoor bulbs and herbaceous plants, and in the case of early starting plants as *hyacinths* there is no need of removing the mulch as the plants push up through it without any impediment or impairment to their foliage.

RHODODENDRON (AZALEA) VASEYI, a recently discovered species in North Carolina is perfectly hardy with us, the earliest blooming of its race, and the loveliest of all azaleas its flowers appear

in great profusion and are of a delicate, lovely, pink color.

XANTHOCERAS SORBIFOLIA.—In the way of shrubs now (May 20,) in bloom, this eclipses everything in profusion and striking character. It is a recent introduction from China, and perfectly hardy, and young plants only 15 or 16 inches high bloom nicely. In habit it is one-stemmed and resembles a miniature tree, and has no appearance of a shrub as a *deutzia* or *hydrangea*. Its flowers are moderately



CYTISUS CANARIENSIS



CYTISUS RACEMOSUS

large and showy, white tinted with red inside at the base, and arranged on long upright racemes, and so floriferous are the plants that, the main stems excepted, nothing but flowers is now visible. What a sensation a few of these plants in full bloom, in pots or tubs, at Easter, would make! There is no denying the fact that church people are looking for something more graceful than stiff *hydrangeas* and bunched *azaleas*.

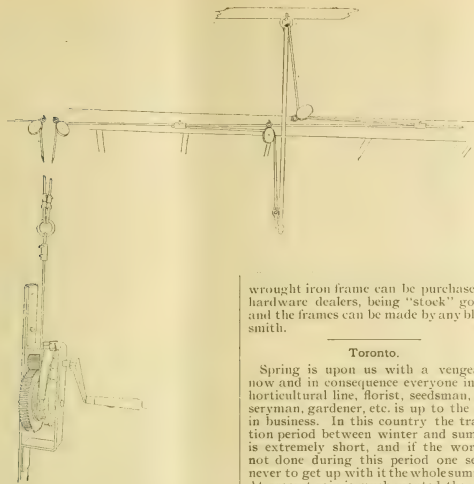
THE THREE SNOWBALLS.—We have three, namely, *Viburnum Opulus sterilis*, which is the common form and has the largest snowballs of any; *V. plicatum*, which is usually known as the Japanese snowball, and is a little later than the other; and *V. rotundifolium*, which although after the fashion of *plicatum* is perfectly distinct from it in wood, habit and time of flowering; its blooms open (become white) four or five days ahead of those of *plicatum*. The three kinds are indispensable. The leaves of *plicatum* and *rotundifolium* are never murred by insects, whereas those of the common sort are always, more or less, infested and curled with aphides.

Cytisus Racemosus.

There is some lack of direct evidence in support of Mr. Falconer's repeated assumption in the columns of the *AMERICAN FLORIST* that this plant is a variety of *C. Canariensis*. The plants are very distinct, as will be seen from the accompany-

ing figures of typical flowering branches. Note the larger leaves, with more pointed leaflets of *C. racemosus*, and the much elongated raceme of flowers. The leaves of *C. Canariensis* are also more densely covered with fine downy material than those of *C. racemosus*. The origin of the latter plant is involved in much obscurity. It was first referred to as a new introduction in 1837. Mr. R. A. Rolfe, a distinguished botanist of Kew, with all the facilities of that institution at command considers it more probably a variety of *C. stenopetalus*, another species from the Canary Islands, and this view is no doubt correct. But Mr. Falconer may be in possession of facts to protect his position. Precise information on this question however has been eagerly sought for many years, and if the latter can now aid in its solution he will confer a much esteemed favor on several interested parties. *C. Canariensis* and *C. racemosus* are both good garden plants, but I consider the latter entitled to preference. It is of more compact habit than the other, and its much larger racemes are more serviceable. The racemes of *C. Canariensis*, it is but right to add, appear in greater profusion, but the number is still insufficient to allow the plant to meet the compensative qualities of *C. racemosus*.
Cambridge, Mass. M. BARKER.

WHEN WRITING advertisers please say that you saw the adv. in the *AMERICAN FLORIST*.



INEXPENSIVE VENTILATING APPARATUS.

Inexpensive Ventilating Apparatus.

Some time since we illustrated a cheap ventilating apparatus used by Mr. J. T. Anthony, a Chicago florist. We now present an illustration of an improvement on the same as developed and used at the new greenhouses recently erected at Lincoln Park, Chicago. We are indebted to Mr. J. A. Pettigrew, superintendent of the park, for photographs and sketches from which the illustration is engraved and also the following description:

"Referring to the sketch of device for greenhouse ventilation would say that while the idea is not new its application in many cases has been cumbersome and crude and failed to do the work required. The sketch shows the method of application in a range of newly erected houses at Lincoln Park.

"The winch comprises a 6 inch bull wheel, a pinion of $1\frac{1}{2}$ inches, a drum of 4 inches, a ratchet and dog and a 12 inch crank handle, set in a wrought iron frame bolted to the inside end of house. This is found to be of sufficient power to operate nine sashes on each side of a house 100 feet by 31 feet, amply sufficient for ventilation, and either side can be worked separately at will by the same winch.

"Heretofore a great objection to the use of this system has been the want of a lock to hold the sash whether open or closed. This has been obviated at Lincoln Park by the use of Mr. O. Parker's device, an idea born of necessity while fitting up the system and for which he has applied for a patent. The lock is accomplished by running an auxiliary cord back from sash to cable in the opposite direction to that of the lifting cord.

"The cost at Lincoln Park has been complete for the apparatus at the rate of \$1.40 per ventilating sash, or \$26 per house of 100 feet long."

All the parts with the exception of the

wrought iron frame can be purchased of hardware dealers, being "stock" goods, and the frames can be made by any blacksmith.

Toronto.

Spring is upon us with a vengeance now and in consequence everyone in the horticultural line, florist, seedsman, nurseryman, gardener, etc. is up to the eyes in business. In this country the transition period between winter and summer is extremely short, and if the work is not done during this period one seems never to get up with it the whole summer. At present rain is much wanted, the grass on some lawns actually beginning to scorch. Bedding out does not begin generally until the last week in May. "After the Queen's birthday" (24th) is the usual response to the query, "when do you begin to bed out?" There are always some venturesome ones of course, but I don't think they get much ahead if I don't of those who plant later in the long run.

The Gardeners' and Florists' Club's regular monthly meeting took place on the 13th. The chrysanthemum show prize list was the "piece de resistance" and there was some pretty lively resistance too. The greatest tussle was over plants being grown on single stems; in the majority of cases those in favor of single stem plants carried the day though the voting was close all through. We think now that we have a prize list as good as the best with the exception of the size of the prizes, which are not quite so large as those of some other cities, but owing to the youth of our club we deem it wise to go slow on this point; however about \$500 is offered and this amount being distributed as it is in the list ought to bring out a first class show.

I should like Mr. Editor, to hear some opinions on this single stem business from some of the "big guns." About the only thing in its favor that I hear is that it is the universal custom in the old country to grow plants for exhibition on a single stem. No doubt it requires more skill and attention to grow them so, but the chrysanthemum is herbaceous and naturally throws up many stems and if better plants can be grown with more than one stem, why not allow them to be grown so for exhibition? What can be more beautiful than a naturally grown spray of chrysanthemum, though no one expects to see the largest flowers on such a spray (I do not intend against large flowers). A floral design may be "fearfully and wonderfully made" and be ever so skillfully fixed up, but it is quite another matter whether it is beautiful from a really artistic point of view. Sometimes shrubs, etc. are clipped

and screwed into most astonishing shapes and forms, but are they beautiful? Is not the skill alone displayed that excites the wonder of the beholder? It seems to me that in these days of enlightenment people want things to be artistic. Can art be more beautiful than nature? Ingrowing plants for exhibition I suppose what is aimed at is to show off all their good points to the best advantage, to do which it is necessary to depart from the natural to a certain extent, but why go out of the way to do so simply because it is an old custom? It is said also that allowing more stems than one opens the door to fraud. Is this really so? Is anybody going to put half a dozen plants into one pot when all the stems he wants will come up of themselves if left alone? I will admit I was among the minority on this question, but am quite willing to be converted, but it must be by a stronger argument than "it is always done in the old country."

There was a report from the entertainment committee that matters in that department were progressing and it is hoped that by next meeting there will be something definite to report. The president also reported that he had secured from the city the horticultural pavilion in which to hold the convention and trade exhibition for the third week in August.

E.

Boston.

A beautiful lawn vase suitably inscribed has been presented to Mr. H. H. Hunnewell by the Gardeners' and Florists' Club of Boston, in recognition of his generous entertainment of the Society of American Florists at the time of the Boston convention. The vase is very large and handsome, somewhat similar in pattern to the one presented to Mr. G. W. Childs on a like occasion a few years ago by the Philadelphia Florists' Club.

The periodical scrimmage between the store florists and the street fakirs has been on during the past week in the form of a complaint in court against one of the street men for obstructing the sidewalk. The party complained of had been selected as a sample and the proceedings were regarded in the light of a "test case." The result of the trial was an acquittal for the defendant and the street fakirs, who are now almost "as thick as flies," are jubilant.

The store men have themselves to thank mainly for the present unsatisfactory condition of things, as they have always opposed or ignored any and all attempts which have been made to systematize the business to regulate the methods of disposing of flowers at wholesale or to secure greater uniformity in prices.

At Horticultural Hall on May 23 Jackson Dawson made a display of lilacs which comprised thirty-four varieties and surpassed any similar collection ever shown here.

There was also an attractive group of Bizarre tulips from J. Warren Clark. These old-fashioned favorites are now seldom seen excepting in an occasional old time garden, but they deserve a better fate.

A party of four or five of the boys took a holiday recently and went twenty miles up into the country with the intention it is said of catching some fish. They were more fortunate than some fishermen are, for they did bring home something, to-wit: A very large bundle of asparagus. The upholstered seat of a bouchée is a comfortable position from which to inspect farms and fill the poor farmers with envy, but

for the purpose of fishing it can hardly be called a success.

Benji Grey, of Malden, has recently published a very neat and instructive catalogue of aquatic plants.

Much interest is manifested here in regard to the coming convention at Toronto, and judging from present indications the delegation from Boston will be the largest on record. W. J. S.

New York.

The cut flower trade has been better than expected, owing to the cool weather and the falling off in the supply. All out door bulbous stuff is gone. There will be several large floral decorations this week of which I will give an account next issue.

Judging from the report of the plant growers, the business at both Spring street and Union Square markets is very good and plants are bringing fair prices.

Dards had the order for the dinner given in honor of Alderman Storm, at the Manhattan Athletic Club, on Wednesday evening, May 20.

The hall was elaborately decorated with palms and other tropical plants. The dining room was a marvel of beauty. The chandeliers were profusely decorated with garlands of smilax, adiantums and orchids, while the mirrors, etc., were very appropriately decorated with the same, and large groups of palms constituted the corner decorations of the room.

On the table which was set for 20 was a very large centre piece of American Beauty roses, edged with calla lilies, and from every third calla a different colored electric light shone.

Many distinguished guests were present, among whom were Mayor Grant and Chauncey M. Depew.

Alex. Varendorf has made a reputation for himself by the very handsome wedding decoration which he made at the Church of the Holy Transfiguration on Tuesday, May 19, at 2:30 p. m., on the occasion of the marriage of Miss Pell. After the wedding ceremony a reception was held at the house of the bride's mother. The bride received her guests beneath a canopy of orchids of the choicest varieties and adiantums, and held in her hand a bouquet made of lily of the valley, tied with a handsome white ribbon. The mantels in the parlor were banked with orchids and adiantums, and taken in all, the decoration was one of the most pleasing that we have seen in some time.

We notice with great pleasure that Jos. Feischman has opened a store on Broadway opposite the Grand Hotel. The store is very handsomely fitted up, the walls being almost entirely covered with mirrors, and his display of roses and other choice flowers is worthy of any florist. He is a young man and started at the foot of the ladder, but by perseverance and attention to business has risen to his present position. We hope he may continue to do as he has been doing.

In a recent issue we announced that Mr. Lawrence Hafner intended opening business for himself. It is now our pleasure to inform our readers that he has opened an elaborate florist establishment at 911 Broadway. It is gratifying to announce this starting in business life and Mr. Hafner has our best wishes for his future success.

At a meeting of the committee for the revision of the by-laws of the New York Florists' Club held at the office of Theo. Roehrs, Mr. Dean, chairman of said committee, presented corrections and amend-

ments which after being debated on by the members of the committee and the necessary changes made were adopted.

A report of this committee will be read at a meeting of the club on June 8, on which occasion the regular nominations for officers will be made for the ensuing year.

Regarding comments on designs on page 781, No. 155, wherein you say that you think that set designs should be abandoned because they take from the grace of the flowers, allow me to say that that is all right in regard to bouquets and baskets, but if crosses, wreaths, and/or any set design were ordered and you were to make them up loose and show the "grace" of the flowers, can you tell me what the design would look like? In regard to Nugent's lamp I think he deserves credit for going to the expense of making up such an elaborate design for the benefit of florists generally. The same may be said of Foley's Candelabra.

JOHN YOUNG.

OBITUARY.

CHARLES M. PRESBY, of the John Henderson Co., Flushing, N. Y., died suddenly, May 17, at Chemnitz, Saxony. He was born in Montreal in 1837, came to New York in 1855 and entered the dry goods trade. Since 1876 he had been buyer for Arnold, Constable & Co., and he was abroad for them at the time of his death.

He was always a great lover of flowers and a few years ago when the late John Henderson retired from active business Mr. Presby associated with Mr. Charles Anderson, for many years foreman for Mr. Henderson, purchased the business, conducting it since that time under the title, the John Henderson Co. The body has been embalmed and will be brought to New York for interment.

THOMAS KERIES.—It is with regret we record the death of Mr. Thomas Keries, who for 10 years has been with Hammond & Hunter, the wholesale florists, and since the dissolution of the firm has remained with Mr. Frank Hunter, who continued the business of the firm.

Mr. Keries was enjoying good health until late on Friday evening, in fact your correspondent was talking with him about half an hour before he was taken sick. He was very popular in the business and a most exemplary man, gentlemanly and upright in all his dealings, and with fervent sorrow all florists mourn his loss.

Chicago.

Business quiet, but little change from last report. No material change in prices.

The statue of Linnaeus, the great botanist, recently erected in Lincoln Park by the Swedish residents of the city, was unveiled and formally presented to the authorities last Saturday afternoon. There was an immense turnout, the various Swedish societies parading their full strength, decorated with badges and flowers. The statue is of bronze, of heroic size, and represents the man of science returning from a botanizing trip, carry-

ing a book of specimens under one arm and a few flowers in his hand.

Final action has not yet been taken by the World's Fair directors regarding the chieftaincy of the Department of Horticulture. It is now reported that nothing will be done until June 9.

"Rogers, the florist, has come to stay," was the sign displayed last week in the store occupied by Tom Rogers on Wabash avenue, but there seems to have been some mistake somewhere, as he is not there this week.

Among recent visitors to the city was Mr. L. S. Swanson, of Duluth, Minn.

Best Selling Coleus.

Will some of the Chicago retailers give me the names of coleus selling best around Chicago. C. F.

IF YOU LIKE THE AMERICAN FLORIST give it your fullest support by confining your orders to those who advertise in its columns and mention the paper when ordering.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) per insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a man of 30; good grower of carnations, chrysanthemums, etc. Would like to work on shares. Address J. J. care American Florist, Chicago.

SITUATION WANTED—By an experienced florist, as grower of palms, ferns, roses, chrysanthemums, violets and early forcing. Best of references. A. B. Fontaine, Chertoff, Hamilton Co., O.

SITUATION WANTED—By an Englishman, single, age 31 years, as manager or foreman, can furnish the best of references. Address R. C. care Wm. J. Stewart, 6 Bromfield St., Boston.

SITUATION WANTED—In private or commercial place, private preferred. By young man thoroughly at home in all branches of the business. Roses, early forcing, and all kinds of plants. Can grow good vegetables, manage or attend to grounds. Testimonials of the best will confirm. Strictly sober, single. W. care American Florist, Chicago.

WANTED—Information of Michael Wilmot by his brother P. Wilmot. Address RICHARD REILLY, Stratford P. O., Chester Co., Pa.

WANTED—A man that understands ferns, palms, etc. Good wages and permanent position to the right man. O. P. BASSETT, Hinsdale, Ill.

WANTED—A young man posted in rose growing, one who has had experience on a large place. Wages for first year, \$2 a month and board. Address S. C. care American Florist, Chicago.

WANTED—A good greenhouse worker; must understand the business; must be sober and industrious—single preferred. Good position and steady place to the right man. Send references and wages expected. D. B. WOODRUFF, Macon, Ga.

WANTED—Immediately, man to take charge of greenhouse; must be sober, industrious and well suited in all branches of the florist business; none but good men need apply. Write giving references to AMSTERDAM FLORIST, Ambert, Nova Scotia.

FOR SALE CHEAP—Locomotive steam boiler, 20-horse power. For further particulars, address J. H. SMITH, P. O. Box 116, Burlington, N. J.

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E. L. KOETHEN, Zanesville, O.

20,000

PERLES, PAPA GONTIER,	\$4.00
MERMET, LA FRANCE,	per
and BRIDES, 2½-inch pots,	100
Nice, healthy plants.	

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614 Chestnut Street, PHILADELPHIA, PA.

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Have a few thousand surplus of well grown

MERMETS and BRIDES.

\$5.00 per 100; \$40.00 per 1000. This stock is extra fine.

ALSO THE VERY BEST IMPORTED FLORISTS' FLOWER SEEDS.

Send for list.

H. W. BUCKBEE, Rockford, Ill.

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C. MERMETS, BON SILENES.

AND SAFRANOS.

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Cor. Gratiot and Miami Aves.,

DETROIT, MICH.

Mention American Florist.

ROSES.

We still have ready for immediate shipment, in excellent condition, a fine assortment and true to name:

50,000 ROSES in 2-inch pots, \$35.00 per 1000, our selection; \$40.00 per 1000, your selection.

Send your lists to be priced for everything in the FLORISTS' line. Satisfaction guaranteed. Catalogues upon application.

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Waban Rose.

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JOHN N. MAY, Summit, N. J.

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Trade List upon application.

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ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

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ROSES.

All the best varieties for forcing, and also for bedding out, in 2 and 2½-inch pots, \$4.50 per 100; \$40.00 per 1000. Own selection, \$35.00 per 1000. Roses in 3, 4 and 6-inch pots at lowest rates. Also greenhouse and bedding plants.

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COMPLETE STOCK OF BEST STAMENS.
ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for Florists.

E. G. HILL & CO., Richmond, Indiana.
Mention American Florist.

We have about thirty-five thousand (35,000) of the leading,

FORCING ROSES.

which we quote at \$4.00 per 100, 2-in. pots. Excepting Duchess of Albany, Souv. de Wootton and Wm. Francis Bennett, which we quote at \$7.00 per 100.

L. A. CASPER, Council Bluffs, Iowa.

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WABAN, SOUVENIR DE DR. PASSOT, MME. PIERRE GUILLOT,

And all the other NEW and Standard Varieties of TEAS; Hybrid Remontant, including HEINRICH SCHULTHEIS, which is by far the best early forcing Hybrid. This is the variety which MR. JULIUS ROEHR has forced so successfully for the past three years. Also all the best varieties of

HYBRID TEAS, CHINAS and BOURBONS,

For forcing, bedding, etc., etc., all of which I have an EXTRA fine stock now ready for shipping at prices as low as any one can produce such stock for. NEW PRICE LIST TO THE TRADE NOW READY.

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NEW JERSEY.

Mention American Florist.

ROSES FOR FLORISTS.

OVER THREE HUNDRED AND FIFTY VARIETIES ON SALE. Ready for immediate Delivery.

We offer the largest and most complete stock of Roses in this country. Straight 2½-inch plants propagated from well matured field grown plants, and grown in ordinary soil without manure or any stimulating material whatever.

Our Roses Resist Disease, Start Quickly, Grow Rapidly and Always give Best Results.

All the Newest and Choicest Roses for Sale and in Bloom. The famous New American Pedigree Roses—Henry M. Stanley, Pearl Rivers, Mrs. Jessie Fremont, Maud Little and Golden Gate. If you want to buy Roses send your lists and have them priced. Prices low, according to value of varieties and size and character of order.

The New White Chinese Wistaria, the finest of all. New Chinese Double Purple Wistaria, very rare. Wistaria Sinensis, Magnifica and Frutescens. Fine Harry Shrubbery, all varieties, cheaper and better than imported.

Harry E. Weidenper, Ada Spaulding, V. H. Hallock, Louis Boehmer, Mrs. New Chrysanthemums, Alpheus Hardy, Nymphes and 100 other newest and best vars. for all purposes. THE BEAUTIFUL MANETTIA VINE, new MOON FLOWERS, etc. Wholesale Price Lists FREE to Florists, Market Gardeners and Dealers only.

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THE DINGEE & CONARD CO., WEST GROVE, PA.

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ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants, Catalogue of Prices Now Ready.

3 CENT ROSES.

2000 La France, 3000 Merope, 2000 M. Niel, 2000 Papa Gontier, 5000 Bon Silene, Devoniensis, Duchess of Edinburgh, Mme. Swailor, Niphotos, Safrano, Sombreuil.

10 000 H. P. AND MOSS AT 4 CENTS. OUR SELECTION.

2-inch pots in open frames, well hardened and in line shape for planting in open ground:

Gen. Jacq., La Reine, Magna Charta, Mrs. Jno. Laing, Chas. Lefebvre, Aug. Mie,

Giant des Battes, Jules Margottin, Queen of Queens, Mme. Plantier.

MOSS—Alice Leroy, A. Purpurea, De Luxembourg, Henry Martin, Gloire of Mosses

☞ We can save you money; supply good stock, and fill your orders promptly. ☞

LIST MAILED ON APPLICATION.

WILSON BROTHERS, SPRINGFIELD, OHIO.

ROSES.

We offer for sale this season, 30,000 FIRST QUALITY FORCING ROSES grown from two-eyed cuttings in 3 and 4-inch pots, ready for immediate planting.

MME. HOSTE, LA FRANCE, SOUV. DE WOOTTON, 3-inch pots, \$5.00 per 100; 4-inch pots, \$12.00 per 100,
PERLE DES JARDINS, SUNSET, BRIDE,
NIPHOTOS, SAFRANO, MERMET,
BON SILENE, SAFA GONTIER,

3-inch pots, \$7.00; 4-inch pots, \$10.00 per 100.

☞ Send for our Rose Circular. We wish every florist needing Roses to read it. ☞

J. L. DILLON, Bloomington, Pa.

ROSES FOR FORCING ROSES

Fine Plants of the Leading Varieties from 4-inch pots, including BRIDES, MERMETS, HOSTE, GONTIERS, PERLES, NIPHOTOS, DUCHESSE OF ALBANY, METEOR, CLOTHILDE SOUFLET, Etc., Etc.

ELLWANGER & BARRY,

MOUNT HOPE NURSERIES,

Mention American Florist.

ROCHESTER, N. Y.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 cents a Line, Agent;
1 inch, \$1.00; Column, \$14.00.
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No Special Position Guaranteed.

Discounts, 6 lines, 5 per cent; 13 lines, 10 per cent;
26 lines, 20 per cent; 39 lines, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for artists, florists, and others in business pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE ARRANGEMENT OF FLOWERS.

In the discussion upon this very interesting subject, thoughts should be expressed with precision, and to that end we ask all to read carefully the following quotations from Webster:

TASTE, noun. Nice perception, or the power of perceiving and relating excellence in human performances; the faculty of discerning beauty, order, congruity, proportion, symmetry, or whatever constitutes excellence of beauty in the fine arts; critical judgment; discernment.

Some consider taste as a mere sensibility, and others as a simple exercise of judgment; but in union of both is requisite to the existence of anything which deserves the name. An original sense of the beautiful is just as necessary to aesthetic judgments as a sense of right and wrong to the formation of any just conclusions on moral subjects. But this "sense of the beautiful" is not an arbitrary principle. It is under the guidance of reason; it grows in delicacy and correctness with the progress of the individual and society at large; it has its laws, which are seated in the nature of man; and it is in the development of these laws that we find the true "standard of taste."

BEAUTY, noun. An assemblage of graces or of properties which pleases the sight or any of the other senses, or the mind, by the quality of an object which delight the esthetic faculty.

SOME TIME since we noticed the formation of an organization of florists in different cities whereby orders taken in one city for flowers or arrangements to be delivered in other cities, were filled on telegraphic order by the member of the association doing business there. For instance, if Mrs. Jones, in Chicago, wanted to send some flowers to Mrs. Jones, in New York, she could leave her order with the Chicago member of the association, he telegraphs the order to the New York member, and delivery is at once made. The New York member charges the same to the Chicago member, less a commission, and the latter, of course, collects from the customer. This association, the idea of which, originated with Mr. C. B. Whitnall, of Milwaukee, now has members in nearly all of the large cities, and a new feature has recently been added in the form of a letter of credit, which members may issue to customers who are going to travel. This is an order on any of the members of the association, good for a stated length of time, anything delivered on account of it to be charged to the one issuing it, he to collect for same, and receive a commission on the sales. By this means it is expected to secure to the association the trade of the customers of each one, while away from home.

THE Bay County Horticultural Society, Bay City, Mich., which will give its first chrysanthemum show November 5 to 11 next, has offered to give twenty-five collections of chrysanthemum plants of one dozen each, to those who will agree to grow the plants for exhibition at the show. Cultural instructions will accompany each collection, and by this means it is expected that considerable interest will

be awakened. The list of premiums foots up to over \$1,000, among them being \$100, \$50 and \$25 for collection of cut blooms, not less than 50 varieties and not less than 100 blooms, open to all outside of Bay county. Premium lists may be had on application to T. J. Cooper, secretary, Bay City, Mich.

THE CALIFORNIANS have recently been enjoying their annual "flower festivals," "rose festivals," etc., and these affairs seem to be increasing in number and magnitude every year. At many of them prizes are offered for best displays of certain flowers, but they are not exactly competitive exhibitions in the sense we in the trade use the term. They are rather a combination of flower show and church fair, but they certainly do much to advance the interest in plants and flowers.

WE COMMEND the notes on color contrasts in the arrangement of flowers which appear in this issue to the careful consideration of our readers. Mr. Mathews is peculiarly well fitted to deal with this subject in a practical way, being familiar with flowers as well as an artist of note. In subsequent issues we shall publish other articles from his pen, treating particularly of the proper combination of flowers then in season.

THE semi-annual meeting of the Missouri State Horticultural Society will be held in St. Joseph, June 2 to 4. The meeting will be held in the Y. M. C. A. Hall. A rate of one and one-third fares for the round trip has been made by most of the railroads. The programme has been printed and copies may be had on application to the secretary of the society, Mr. L. A. Goodman, Westport, Mo.

THE S. A. F. is probably the largest trade organization in America. Shall we not have the ordinary reduced rates given to the smallest societies. We think yes. Western members should act as indicated elsewhere in this issue, immediately.

YOU WILL benefit the FLORIST by mentioning it every time you write one of our advertisers.

PROF. L. H. BAILEY has resigned the editorship of the *American Gardener*.

Catalogues Received.

C. H. C. Machen & Sons, Warmond, Holland, Dutch bulbs; L. Van Vaveren & Co., Hillegom, Holland, Dutch bulbs; Margrave & Ward, Hiawatha, Kan., plants; Frederick Mau, South Orange, N. J., orchids; Richard Dean, Ealing, London, W., England, plants; Byron H. Ives, Albuquerque, N. M., plants; J. M. Ogles, Slaughter, Wash., nursery stock; J. A. De Veer, New York, bulbs, seeds, plants and florists' supplies; F. Fontaine, Racine, Wis., chrysanthemums; Kroeschell Bros., Chicago, greenhouse boilers; M. Veldhuyzen van Zanten & Sons, Lisse, Holland, Dutch bulbs; H. H. Berger & Co., San Francisco, bulbs, seeds and plants; Wm. Paul & Son, Waltham Cross, Herts, England, roses; Wm. E. Nolan, Brooklyn, N. Y., greenhouse boilers; Byvoet Bros., Overveen, Holland, Dutch bulbs; M. F. Ludwig & Sons, Allegheny City, Pa., plants; John Curwen, Jr., Villa Nova, Pa., plants and cut flowers; Siebrecht & Wadley, New Rochelle, N. Y., plants; Z. De Forest Ely & Co., Philadelphia, Pa., forcing bulbs; L' Horticulture Internationale, Leopold Park, Brussels, Belgium, orchids and rare plants; Orcutt Seed and Plant Co., San Diego, Cal., wild flowers, ornamental trees, shrubs and plants.

Coming Exhibitions.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 17, Providence.—Rose and strawberry exhibition Rhode Island Hort. Society.

June 18, Hartford, Conn.—Rose show Hartford County Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

June 29, Hamilton, Ont.—Rose show Gardeners' and Florists' Club of Hamilton.

July 22-23, Toronto, Ont.—Flower show Toronto Electoral District Agricultural Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 22, Hartford, Conn.—Fall exhibition Hartford County Hort. Society.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society.

November 2-5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 2-8, New York.—Chrysanthemum show Madison Square Garden.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 3-6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society.

November 10-12, Pittsburgh.—Chrysanthemum show Pittsburgh and Allegheny Florists' and Gardeners' Club.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

November 11-12, Worcester, Mass.—Chrysanthemum show Worcester County Hort. Society.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society.

November 11-12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club.

November 11-13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society.

November 11-13, Utica, N. Y.—Fall exhibition Utica Florists' Club.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society.

November —, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore.

November —, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society.

November —, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society.

54 La Salle Street, CHICAGO.

Our Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president; JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1894.

Government Seed Dept 1885.

In the report of agricultural expenditures, which includes many other items, the money expended by the government for the annual distribution of seeds is one of some interest to seedsmen. We have lately been favored with a set of these records extending back some time and have made some notes of their contents. For instance, in the record for the fiscal year ending June 30, 1885, Norman J. Colman, then commissioner of the department, saw fit to itemize all invoices, stating quantities purchased and prices paid and some of these details are instructive as indicating the sources from which the government deemed it wise to secure its supply. Messrs. P. Henderson & Co. furnished among other things \$1,400 worth of Kentucky Blue and other grass seeds and over \$3,000 worth of ordinary varieties of turnip seeds. F. E. McAllister supplied \$1,000 worth of sweet corn and \$1,500 worth of flower seeds. G. S. Haskell & Co. besides many other seeds, furnished over \$2,800 worth of cabbage seed. The total expenditure for the year ending June 30, 1885, for seed was \$67,410 and for labor \$23,450.

American Seed Trade Association.

SECRETARY'S OFFICE, BOSTON, MASS., May, 19, 1891.

To the Members of the American Seed Trade Association.—At the last regular meeting of our association held in Saratoga, N. Y., June, 1890, the executive committee decided to hold the next annual meeting in Cincinnati, O., beginning the second Tuesday in June (9th), and the same was approved by the association then in session. I am pleased to report that since that time the executive committee have arranged with the proprietors of the Burnett House in Cincinnati, for accommodations and headquarters; special terms to members and their friends at \$3.50 and \$4.00 per day. We are negotiating with the Trunk Line Association, and the Central Traffic Association, for special rates of one and one-third fares for the round trip on the certificate plan, for delegates and friends attending the meeting, covering the territory east of Chicago, Mississippi river and St. Louis, except Michigan and New England, but as yet no reply has been received. I trust, however, that the arrangement may be completed in a very short time, in which case I will take pleasure in notifying the members promptly by postal. In order that members and friends may avail themselves of this special rate, it will be necessary to observe the following:

First. Each person must purchase not more than three days prior to date of meeting (nor later than three days after commencement of meeting), a first-class ticket (either limited or unlimited), to place of meeting, for which he will pay the regular tariff fare, and, upon request, the ticket agent will issue to him a certificate of such purchase, properly filled out and signed by said ticket agent.

Second. If through tickets cannot be obtained at the starting point, the person will purchase to nearest point where such

through tickets can be procured, and there re-purchase through to the place of meeting, requesting certificate filled out by the agent at the place where re-purchase is made. Tickets for the return journey will be sold by the ticket agent at the place of meeting at one-third of the highest limited fare, only to those holding certificates properly signed and countersigned by secretary of the association.

It is very desirable that we have a full attendance at this meeting as there are quite a number of subjects that will be brought up which will be of vital interest not alone to the members, but to the entire Seed Trade of the United States. Those who have attended the annual conventions are unanimous in their belief that it pays them to do so, even when viewed from a financial standpoint. Besides this, social relations are developed to a large degree, and much recreation is obtained that would not otherwise be had. The association has already accomplished a great deal for the benefit of the Seed Trade, but there is much more to be done, and it can be much better

done by united action. It is earnestly requested that, so far as possible, every member be present. The larger the convention the more benefit will result.

Very respectfully,

JOHN FOTTLER, JR., Sec'y.

VISITED CHICAGO, the past week, Geo. S. Haskell, Henry A. Salzer, J. W. Eldering.

Coming Conventions.

THE ASSOCIATION OF NURSERYMEN will hold its sixteenth annual meeting at Minneapolis, Minn., June 3 to 5. Headquarters at West Hotel. Charles A. Green, secretary, Rochester, N. Y.

THE AMERICAN SEED TRADE ASSOCIATION holds its ninth annual meeting at Cincinnati, O., June 9 to 11. John Fottler, secretary, South Market street, Boston, Mass.

THE SOCIETY OF AMERICAN FLORISTS will hold its seventh annual meeting at Toronto, Ont., August 18 to 20. Wm. J. Stewart, secretary, 67 Bromfield street, Boston, Mass.



CHOICE AMERICAN GROWN FREESIA BULBS, READY IN JUNE.

We have had grown for us 100,000 Choice Bulbs of **FREESIA REFRACTA ALBA**, which we offer on contract orders booked now, until stock is exhausted, at the following prices:

FIRST SIZE, SELECTED, much larger than French grown bulbs.	Per 100	Per 1000
PURE WHITE, SELECTED, EXTRA.	\$1.00	\$ 8.00
Very fine bulbs.	do.	25 10.00
Special rates on application for large orders.		

FLORISTS USING LILY OF THE VALLEY, BERLIN PILS, ROMAN HYACINTHS, NARCISSUS, DUTCH HYACINTHS, TULIPS, Etc. will do well to send lists for our special offers. The quality of our Bulbs is unexcelled.

Z. DE FOREST ELY & CO.,
WHOLESALE IMPORTERS OF BULBS,
1301 and 1303 Market Street,
PHILADELPHIA, PA.

Mention American Florist.

BULBS. BULBS. BULBS. CHINESE NARCISSUS.

ORDER NOW if you wish to secure BEST GOODS at Lowest Rates.

AURATUM, LONGIFLORUM, RUBRUM,  **KRAMERIA, ALBUM, ETC. CALIFORNIA BULBS.**

We guarantee you best stock at the most reasonable rates if ordered now.

AUSTRALIAN PALM and CALIFORNIA FLOWER SEEDS.

— SEND FOR OUR NEWEST TRADE PRICE LIST. —

H. H. BERGER & CO. P. O. Box 2232, SAN FRANCISCO, CAL.

C. H. JOOSTEN,
3 Centies Slip, NEW YORK,
— IMPORTER OF —

Bulbs and Plants.
PRICES ON APPLICATION.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

SPECIAL
Terms quoted to all
FLORISTS
who order their **BULBS**
now for Spring and Fall use from
A. ROLKER & SONS,
136 West 24th St.,
NEW YORK
Station E

Palms and Dracaenas.

The largest stock in the west, at \$5.00 per 100 to \$10.00, \$2.00 to \$10.00 each. Cycas revoluta, 50c to \$5.00 and \$15.00 each. Cross leaves 50c to 25c each. **DRACENA INDIVISA and VEITCHII**, 3-inch pots, strong, 15 to 18 inches, 85.00 per 100. Send for wholesale price list and descriptive catalogue.

W. J. HESSE, Plattsmouth, Neb.

News Notes.

PULTON, N. Y.—D. A. Waterman has added a house 9x58 feet for carnations.

COLORADO SPRINGS, COLO.—Mr. S. D. Bradford, the florist, was married recently.

SHELDURNE FALLS, MASS.—L. R. Fuller has built a greenhouse here and is starting into the florist's business.

DOVER, N. J.—W. H. Spangler, Jr., the florist, was, on May 4, elected a member of the common council of this city by a heavy majority.

PLEASANT HILL, MO.—G. M. Kellogg is building three new greenhouses, each 15x19 feet, all glazed with double-thick glass. He expects to have them in running order by July 1. This addition will give Mr. Kellogg a total of about 20,000 square feet of glass.

PROVIDENCE, R. I.—The Rose and Strawberry exhibition of the Rhode Island Horticultural Society will be held in this city June 17. Copies of the list of prizes to be awarded can be had on application to the secretary, Mr. C. W. Smith, 55 Westminster street.

HARTFORD, CONN.—The Hartford County Horticultural Society has published its programme for 1891. A rose show will be held about June 18, an exhibition of plants, flowers, vegetables and fruit about September 22 and a chrysanthemum show November 3 to 5.

TORONTO, ONT.—The Toronto Electoral District Agricultural Society will hold its annual flower show in the pavilion at the horticultural gardens on Wednesday and Thursday, July 22 and 23. The prize list has been printed and copies may be had on application to J. P. Edwards, secretary, 146 Wellington street West, Toronto, Ont.

SHEFFIELD, CONN.—Mr. T. C. Austin, of the firm of T. C. Austin & Sons., florists, had the misfortune to have one of his legs broken May 8. While attempting to lead an unruly yearling he was thrown to the ground so violently as to fracture the bone between the ankle and the knee. Mr. Austin is 80 years old, and his age makes the accident an especially serious one.

BIG RAPIDS, MICH.—On May 15 fire destroyed the dwelling house, barn and a portion of the greenhouses belonging to L. L. Blair, causing a loss of about \$2,500, with insurance of only \$700. Nearly all the plants in the four greenhouses were destroyed or so seriously injured as to be of little value. A couple of rose houses escaped injury. Mr. Blair will certainly have the sympathy of his friends in the trade in the serious loss he has sustained.

NEW YORK.—The annual supper of the employees of Peter Henderson & Co. was held on Wednesday evening at the Dey St. Hotel. After full justice had been done to the elaborate menu, singing and dancing was in order and the talent displayed by the several artists, all of them employees, surprised their fellow workers and gained for them rounds of applause. A pleasant feature of the evening was the violin solo by Mr. Geo. W. Clark. A vote of thanks was passed for the able manager in which the committee of arrangements, Messrs. Thos. V. Smith, Wm. Bruce, Jos. A. Dailey and R. B. Sheridan, had prepared things. It was the "wee sma' hours" when the pleasant gathering sang "auld lang syne" and departed.

ROOTED CUTTINGS.

COLEUS: VERSCHAFFELTI, strong well rooted cuttings in quantity. Also a limited number of GOLDEN BEDDER, (the assorted ones are all sold). Price, \$5.00 per 100, 75 cents per 100. Verschaeffelti alone, 7500 and upwards, at \$5.00 per 100. This will be the last lot. Order at once.

CARNATIONS: Am entirely sold out. Thanks to the AMERICAN FLORIST.

PANSIES.

Still a few left, but only a few; if you can use them, order now, they will not be here long at the price for closing out. \$1.50 per 100; \$12.00 per 1000. All blooming plants.

Pansy Culture.

In a few weeks I will issue a circular containing a short description of my method of culture for producing the best plants for spring sales with the least expense. It will be mailed to all my customers as soon as issued, and to any others who are interested enough to send for it. I would like every Pansy grower in the country to have one.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

CARNATIONS.

Silver Spray, Fred. Creighton, Golden Gate, Fair Rosamond, J. R. Freeman, Hector, Mrs. Fisher, Wm. F. Dreer, Chastity, Tidal Wave, Grace Wilder, L. L. Lamborn, Constancy, Edelweiss, Emile Louise Taplin, Angelus, Louise Porsch, Nellie Bly, Dorothy, Day Break, Nellie Lewis, and sixty other leading varieties. 100,000 ready now. Send for Price List, and secure your stock.

GEO. HANCOCK, Grand Haven, Mich.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,

NEW ROCHELLE, N. Y.

New and ORCHIDS

Rare Plants and PALMS,

Hardy FERNs.

Plants.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

Mention American Florist.

A FRESH CONSIGNMENT OF

MEXICAN ORCHIDS

Such as *Laelia anceps* (winter bloomer), *Laelia albidia*, *Catleya citrina* (extra fine), *Epidendrum vitellium majus*, *Odontoglossum aureum* (true), *Odontoglossum maculatum*, *Oncidium ornithorhynchum*, etc., etc., at very low prices.

Write for price list.
FREDERICK MAU,
P. O. Box 322, South Orange, N. J.

ORCHIDS.

The finest stock in the WORLD. Nearly five acres devoted to their culture.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

A. DIMMOCK, Agt., 205 Greenwich St., New York City.

FOR DECORATION DAY.

Strong, healthy plants in bud and bloom. Geraniums, South Park strain, 3-in. pots, \$5 per 100; 4-in. pots, \$8 per 100. Feverfew from 4-in. pots, \$10 per 100. Alternanthera, 2½-in. pots, \$1 per 100. Fuchsias, very fine, \$10 per 100. Hydrangeas (Oakleaf), 2½ in. flowers, \$5 per dozen.

JOHN G. HEIN, Terre Haute, Ind.

LAMBORN AND

OTHER CARNATIONS.

Rooted Cuttings and Plants now ready.

J. J. STYER, Concordville, Pa.

Pontederia Crassipes Major or

WATER HYACINTH, Wanted.

State quantity and price.

ALSO LIGHT COLORED GLADIOLUS.

ELY'S SEED STORE

Lock Box 1176. PHILADELPHIA, PA.

Please mention American Florist.

ROSES OF FLORISTS STOCK.

All leading varieties of Teas, Noisettes, etc., 2-inch, \$4.00 per 100.

H. P's, purchaser's choice, 2-in. \$6 per 100.

H. P's, our choice, 2-in. \$5 per 100.

Full assortment of miscellaneous, bedding and other stocks not mentioned below.

Aloysia citrifolia, *Anthemis coronaria*, *Abutilons* in variety, *Chrysanthemums*, good varieties, *Hydrangea Thomas Hogg*, *Hortensia*, *Paniculata grandiflora*, *Hollyhocks*, *Pilea*, *Salvia splendens*, and *Violet Marie Louise*. All at \$4 per 100.

Verbenas, *Vinca*, *Lobelia*, *Heliotrope*, *Coleus* and *Geraniums*, ass't, at \$3 per 100.

Latest Novelties in *Geraniums*, 20 cts. each; \$2 per dozen.

Carnations, older varieties, \$3 to \$5 per 100.

Pelargoniums, \$6 per 100.

Fine assortment of *Fuchsias*, 2-in. \$3, 3-in. \$6, 4-in. \$10 per 100.

Dracena terminalis, 4-in. \$3, 5-in. \$4 per doz.

Red Branch *Hydrangea*, 25 cts. each.

GEO. W. MILLER.

1748 N. Halsted St., CHICAGO.

VERBENAS.

IN BUD AND BLOOM.

General Collection, bushy plants..... \$2.50 \$20.00

XX Mammoth set..... 3.00 25.00

General Collection..... 2.00 20.00

COLEUS Golden Verschaeffelti, Golden Bedder and Verschaeffelti..... 1.25 10.00

And 25 other best sorts..... 1.00 8.00

Heliotrope, Rooted Cuttings..... 1.25 10.00

Ageratum..... 1.25 10.00

Fuchsias..... 1.50 12.00

Lemon Verbenas, strong, 1 year old dor. 6.00

Vincas, strong, 1 year old..... 6.00

Ampelopsis Veitchii, strong..... 8.00

Manettia bicolor..... 6.00

Chrysanthemum varieties and prices on application.

ROSES, extra fine plants, *Perle*, *Merm.*, *Bride*, *Mme. Cusin*, *Mme. de*, *Waville*, *S. Pion*, *Aml. Niphetos*, *Sunnet*, *Le France*, *Cook*, *Goulier*, *Bon*, *Silene* and *Suifano*, 2½-inch pots, 5.00 45.00

Hybrid Perpetuals, in bud and bloom, 5-inch..... 25.00

Trade List of Florists' Stock free.

W. O. BROTHERS,

(Successors to I. C. WOOD & BRO.) FISHKILL, N. Y.

VERBENAS. VERBENAS.

Absolutely free from disease, from 2½-inch pots, \$5.00 per 100; \$50 per 1000.

AMPELOPSIS VEITCHII, 2½ in. pots, \$4.00 per 100.

CYCLAMEN GIGANTEUM, Williams' finest strain, from imported seed, 2½-inch pots, \$5.00 per 100.

Address J. G. Burrow, FISHKILL, N. Y.

J. G. VAUGHAN, CHICAGO.

CLOSE 'EM OUT.

CYCAS STEMS.

TUBEROSES, PEARL, medium, all
flowering, \$4.00 per 1000

L. AURATUM, good, \$7.50 per 100

ROSE, MME. HOSTE, fine, 2 1-2
inch, \$5.00 per 100

DAHLIA PLANTS, splendid stock.

CHRYSANTEMUMS, complete
collection.

PALM SEEDS.

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KENTIA BELMOREANA, \$1.75 \$15.00

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Ampelopsis Quinquanglemannii.

ED. AM. FLORIST.—Can any of your readers help the history of Ampelopsis quinquanglemannii? Any one who can, will confer a favor by so doing.

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A MOVEMENT is on foot looking to a change in the mail service whereby catalogues and circulars may be mailed at pound rates, doing away with the necessity of affixing a stamp to each one. The change would certainly be a most desirable one and would result in a saving to both the government and those who mail large numbers of catalogues. The *American Garden* is circulating a blank form of petition to use in presenting the matter to the postmaster general.

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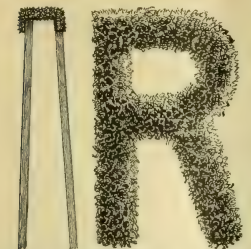
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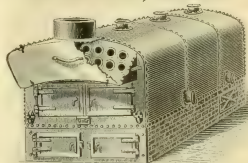
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ROCKFORD, ILL.—The ladies of one of the local churches are making plans to give a chrysanthemum show next November.

SAN ANTONIO, TEXAS.—During the recent visit of President Harrison, a feature of the festivities was a battle of flowers, and now it is urged that such a display be made an annual event.

ATLANTA, GA.—Next month the Atlanta Horticultural Society will have reached its 20th year. During its existence the society has accomplished much for the advancement of horticulture in Georgia.

AT THE RECENT exhibition of the California State Floral Society at San Francisco, Mr. John Rock, the nurseryman of San Jose, is reported to have exhibited a collection of cut roses that included 200 varieties.

THE Florist Club of California is reported to be considering a proposition to go into the raising of flowers on the co-operative plan at Piedmont. The club is also endeavoring to have an ordinance passed by the San Francisco authorities that will require the fakirs to pay a license.

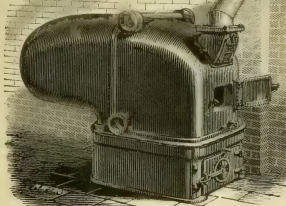
GREENVILLE, S. C.—The executive committee of the State Horticultural Society met here recently and decided to hold the next meeting of the society in this city August 11, 12 and 13 next. There will be an exhibition of fruits, flowers and vegetables at same time, \$75 being offered in premiums in seven classes.

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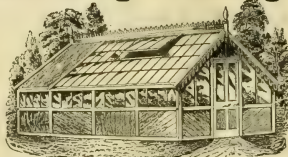
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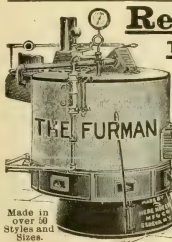
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At the recent rose festival at Los Angeles, Cal., the number of roses displayed and used in the various arrangements was estimated to be fully 89,000. Two immense crescents alone contained 20,800 roses.

A REPORT of the proceedings of the American Association of Nurserymen, at Minneapolis, Wednesday, Thursday and Friday of this week, will appear in next week's issue.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

The Arrangement of Flowers.

BY F. F. BENTLEY.

[Read before the Chicago Florist Club, May 28.]

As the whole subject of the artistic arrangement of cut flowers has been so ably presented to you by Mr. Smyth in his paper read before you at our last meeting it will be only necessary to touch on a few points which he did not fully elaborate. In order to intelligently discuss this matter it seems necessary to enlarge the scope of the subject by adding a most necessary adjunct to cut flower arrangement, namely, plants and vines. No decoration in my opinion is complete without these, but as the arrangement of plants is foreign to the subject in hand, I shall not enlarge upon it any more than would seem necessary.

One of the cardinal points in artistic arrangement is the combination of color, another the proper place to put it in its proper place. Let us consider the former first. Too often it happens that we are hampered right here in producing an artistic effect by an order that the decoration must be done in, say, pink—pink roses—La France, if you please. It is a trying shade of pink at best. No matter what are the tints of the wall, the color of the furniture or the tone of the wood-work; no matter whether in the hall, drawing room, dining room, or private boudoir, pink roses, on mantels, on cabinets, on the hall-tree—no matter of what color—pink roses. No chance here for an artistic color combination.

I would discourage every order of this kind where one color only is wanted to decorate the whole house. The case is far different of course where a lady intends to give a pink dinner or tea. Here the surroundings on the table will be, with the assistance of the caterer, in harmony with the prevailing shade of your flowers. But let us now suppose that you are called upon for a decoration, being entirely entrusted to you to execute in your very best style. The house, let us suppose, to be large and modern. Such being the case you will find large and spacious halls and drawing rooms. Starting with the hall, what is the most suitable kind of decoration? In my opinion nothing but plants should here be used. Decorative plants and plants in bloom, bright colors especially are here desirable. The groups of plants, if the hall is quite large, should be so arranged as to give a rich and massive effect, as the guest enters the house, but care should be taken to so place your plants as not to interfere with the proper use of the floor. If you think it is desirable to add cut flowers use only the larger varieties, such as lilies, tulips, etc.

Let us next turn our attention to the drawing-rooms. This seems to me the proper place for the bolder types of roses, such as the stately hybrids, American

Beauties, Jacques, etc. In all well appointed houses you will find the room decorations, furniture and ornaments in harmonious colors. Now let us be careful not to spoil an artistic effect by choosing the wrong shade of a flower in our decoration. It does not follow by any means that if the prevailing color of this particular room is yellow, that the flowers should be yellow, or if blue the flowers should be of the same shade. The most artistic effect can often be produced by using quite a different shade. Leaving the selection of color to the decorator let us proceed. In drawing-rooms or parlors, plants should be used only sparingly and judiciously. Let us remember what we are here for—to decorate. We are not supposed to create a tropical jungle or turn the rooms into miniature flower gardens. Our object should be to add to the beauty of the surroundings and not to detract from them by an obtrusive display.

Turning our attention to the mantels, always the legitimate prey of the florist, do not insist on having it swept bare, often under protest, of all the beautiful bric-a-brac and ornaments with which it is covered, in order to give you a chance at your tropical jungle. Still if you insist, let us go ahead. If the top of the mantel is to be banded, don't pile tier upon tier of potted plants on it. A mantel is not made for that purpose, neither is such a homely piece of furniture that it must be covered up. A simple arrangement of adiantums or ferns of that nature, not so high as to entirely cover up the glass at the back, adding a few handsome specimen roses or orchids of suitable shade, would be in far better taste. But there are a hundred different ways of making a handsome effect, only let us constantly bear in mind that we are simply to decorate. The base of the mantel of course should be flanked on either side with a few handsome palms, and the grate with ferns, adding perhaps a dash of color in the shape of some bright flowering plant. The most tasteful way, however, to decorate your mantel is to arrange your flowers gracefully and artistically in suitable vases, but as Mr. Smyth in his paper has so ably covered this subject before, it is needless for me to enlarge upon it further. Large groups of plants in parlors, particularly when placed on the floor, no matter how large the rooms are, should not be thought of. A few handsome specimen plants of course would add to the general effect and could hardly be dispensed with. Leaving the hall and drawing-rooms we have little more use for decorative plants—but hold, I had almost forgotten, here is something after all that calls for our best efforts to hide, and if you have a penchant that way here is your chance. Pile up your plants high and mass them together thick. The edict of society has gone forth that the

musician must be heard but not seen, so wherever you find him cover him up well.

Let us now take the liberty of having a peep at the ladies' private boudoir and dressing-rooms; as the whole house is thrown open to the guests we are at liberty to enter. Here is where we should use the more delicate kinds of flowers such as lily of the valley, violets and the smaller varieties of roses, choosing such shades only as will harmonize with the surroundings. Never use large or coarse flowers. If plants are used at all choose only a few choice specimens, not large, and set them in handsome jardinières; never allow a dirty pot to show.

But a decoration of this kind is not an every day affair. Carte Blanche orders are the exception, not the rule. In rare cases out of ten you are not allowed to choose your own flowers. The purchaser will choose them for you and you are expected simply to arrange them in good taste. It is with orders of this kind that the florist is put upon his mettle. To make an artistic display of a dozen kinds of flowers, in a couple of rooms, is not such an easy matter as most people imagine, and the greatest care must be taken in the grouping, in regard to color as well as the size of the flower. Never put more than two varieties of flower in one vase, one kind is better. You cannot do better than to follow Mr. Smyth's advice given you in his paper. The use of smilax or other vines for draping should be very judicious. The draping of doors, windows or pictures gives an artificial effect and should not be countenanced.

And now one word about displaying flowers in your show window artistically. It is here we have the best chance to show the public what can be done in displaying a flower to the best advantage, a chance too often neglected by many of us. Most florists seem to think that stock a day or two old is good enough for this purpose. The stuff is piled into the window every way and anyhow—only have plenty of it. I think we make a bad mistake by pursuing such a course. It is far better to have a single vase filled with a few specimen flowers than a big lot of poor stuff. I am glad to say that some of our floral artists here are fully alive to the importance of this matter. You will probably have noticed that some of our enterprising contemporaries have adopted a novel idea in their window display by placing colored cloth in the window for a background and then displaying flowers of a corresponding shade upon it. The idea is a good one and in the hands of men of good taste the effect will be striking and artistic, but let a novice attempt it and the result is often the opposite from that intended. When I saw such an exhibition the other day it brought to mind a remark made by our president on a former occasion: "In striving for the original be very careful not to run into the grotesque." It is comparatively easy to match a *Perle* rose with a yellow background and not very difficult to match a *Mermet*, but when you attempt to match a *Wootton* or *Jacque* with a red background you will run into a snag. Imagine a brick red cloth with a vase of *Jacques* upon it, especially when the latter are beginning to show that peculiar shade of purple we all know so well. But why must the shade of the flower be the same as your background? There are certain shades of yellow that would set this flower off well. Take a pink flower of the right shade against a sea-green or pen-green and your effect is far better than pink itself.

Speaking of matching flowers with dif-

ferent colored fabrics brings up the matter of ribbons on bouquets and baskets once more. I do not approve of ribbons at all and try to discourage their use, but our patrons will often insist on having them put on. Now you have all had orders in your time to tie a bouquet of *Jacque* roses with a red ribbon to match and you have all failed in the attempt. In all my experience I never found a red ribbon yet that wouldn't spoil the bouquet. But why attempt to match it in red when you can so effectively use an apple green, especially where you use *adiantum* ferns for edging, the shade of which can be matched to a nicety?

Let us look at our conventional bridal bouquet for a moment. You have all read in the papers descriptions of fashionable weddings. "Miss Uperton, the bride, was arrayed in a gown of the softest silk trimmed with the daintiest of laces." Never mind what else she wore, it doesn't concern us; but she "carried an immense bouquet of *Bride* roses." "An immense bouquet"—the size, shape and weight about that of a good sized Drum-head cabbage. I can't compare it to anything else. This monstrosity has to be logged around by a dainty bride. But to cap the climax it has to be tied with about 4 yards of 4-inch ribbon. Just note the artistic effect of the heavy ribbon against the airy raiment of the bride. Truly here is a good field for our artist to do some missionary work. From an artistic standpoint the large and cumbersome bouquet must go and so above all must the ribbon.

Now just one word more about the arranging of flowers in baskets. Let us say an every day basket of mixed flowers: A basket of this kind can be made in very good taste even if we use a variety of colors. True, from an artistic standpoint we would not advocate too many colors, but with the aid of a liberal use of good foliage a very good piece of work might be produced. One thing we have to guard against and that is the indiscriminate jumbling of colors and varieties and above all avoid glaring colors. What would be the point of a basket of mixed roses and—*Delphinium* *fornosum*? I have seen a basket of this kind, put up by one of our best florists, a basket arranged to perfection except for the unfortunate use of some of this same *delphinium*. Look at such a basket and you will see nothing but the intense blue. This flower while very handsome and striking by itself is certainly not adapted to combine with yellow, pink or red roses.

The use of foliage in floral decorations is not fully appreciated by many of us and yet it is just as important as the flower itself. We should be careful to select foliage in form and shade of color to harmonize with the flowers we intend to use. But I hear you say there is not very much to choose from, which is very true. Alas, we are handicapped right here. A few varieties of ferns, *Asparagus plumosa* and the everlasting *smilax* about comprises the list to draw from. But we must make the best of what we have. Suppose you have a bunch of *callas* to arrange in a vase, you certainly would not use *adiantum* ferns; there is nothing that suits this flower better than its own foliage, and the same is true of lily of the valley. Let nature be our guide in selecting our types of foliage and we can hardly go amiss.

Since writing the above I read the valuable and highly interesting article of F. Schuyler Matthews in today's issue of the *FLORIST* on "flowers and their color

effects," and let me conclude by quoting the sentence: "It certainly must be a false conception we entertain of color if we do not recognize the emphasis which nature lays on her restful greens. They are a necessary background to all her color effects."

Steamer Basket.

The flowers were put carelessly in this basket simply to give pleasure for several hours. It was sent on board but a short time before sailing, and as is generally the case, they are discarded a short time after they get under way. A string of *Asparagus plumosus* (which has come to stay) was wrapped around the handle, and sweet peas arranged through the green, large bunches of long stemmed pink and white carnations and daisies were used, but no wires. The effect was a little different and rather pleasing.

Possibly it will be interesting to some to know how it was sold. A lady who is generally hard to please, came into the store in a great hurry. Didn't know what she wanted, and sure that we didn't have it. Wanted something for a steamer, but could not wait, sorry we did not have Jacks, because that was the only thing she cared for, etc. Did we have orchids? Sorry she did not order it yesterday. Did not have time now, etc. While she was talking in this strain one of the boys was unpacking a basket of pink and white carnations and daisies. I got down the basket seen in the illustration, and before she had regained her breath and composure, I had the basket finished, and "T was what she wanted." H. H. BATTLES.

Exhibitions.

Never before in this country has so much thought been given to horticultural exhibitions, and the questions, how to make them pay from both an educational and financial standpoint; what are the best methods of advertising; what are the best means of stimulating competitors; the value and number of prizes to offer, etc.

All of these questions are being discussed, but very little is said about the best means of determining the merits of the exhibits. I have attended many exhibitions, and never for a moment have I doubted the honesty of the judges (a thankless task at the best) but am often curious to know what method of reasoning they employ in arriving at many of their decisions.

Take for example the arrangement of cut flowers: the first prize corsage bouquets are often so large that no lady of taste would wear them. Funeral, and original funeral designs, such as: A clock with the hands pointing to the hour of death, and on the base of the design in letters poorly made and poorly put on are the words, "The fatal hour." What a shock that would give a sensitive or sensible person. That hour would be so impressed upon some minds that a clock would never point to it without recalling with great unhappiness "the fatal hour." And the next time death visited that family you would see in the papers, "Please omit flowers." We have also seen broken wreaths made but have never been able to understand their meaning, unless it be to emphasize the sender's belief that the soul is not immortal, but has an end. Broken columns are frequently sent to infants, lyres to politicians, broken ladders to firemen, gates ajar and palm leaves to a man who lived



STEAMER BASKET

a thoroughly bad life, ended his life by killing a woman and committing suicide, and the inscriptions used are, "Rest," and "Oh, death, where is thy sting," "Oh, grave, where is thy victory."

I know of another case where a party of friends while out rowing met with an accident; one of the number was drowned. They went to a florist to order an appropriate emblem. And a boat was decided

upon as being the most likely to suit the sorrowing family.

But still such designs are often seen at exhibitions and receive first and second premiums. The judges could give some healthy lessons and benefit the whole trade if they would not give them any premiums, but rule them out entirely.

And then table designs. How often do we see them so high and massive that

it is impossible to see or converse with the guest sitting opposite; had combinations of color; roses stripped of their foliage and massed together; no room for wine glasses, relishes, etc., and scarcely room for plates; so little, that the decorations would be a constant annoyance to the guests.

We have known a number of cases where flowers have been removed from the table;

generally when they obstructed the view, but several times when their odor was too oppressive. It would be no more out of place to have a brass band in the room, playing so loudly that people could not hear, than it would to build a wall of flowers between guests. But there are so many things to be considered in wisely decorating a table, that can only be learned by experience and actual contact with the work, that the greatest care should be used in selecting the judges that have knowledge on the subject.

I have before me an article cut from a paper of this date which reads: "Corsage bouquets are entirely 'out' this year. All flowers, unless it be one very perfect rose or orchid, are carried in the hand. Women have come to the very sensible conclusion that handsome gowns are ruined by having flowers pinned upon them, while, of course, to fit a cor or cob-wolly chignon, they mean total annihilation."

The florists have themselves to blame for such notices, which do more harm than many imagine. In most cases it is far better to send flowers loose, than attempt to arrange them for corsage bouquets. If a good assortment is sent you can trust any lady to select the proper flowers for the gown, and to wear so that it will not injure the most delicate lace. But the idea of sending a big wad of flowers tied with a long piece of ribbon, not knowing the color or the cut of the dress that the lady will wear, is simply ridiculous, and no wonder that there is a cry against corsage bouquets, as there often is against sending flowers to funerals, when we see designs that a carpenter could make quite as well and with as good taste as a "Maker up," as some workers in flowers call themselves. Now, as to the judges of exhibition, would it not be advisable to select them from men who have had experience in the branch or class of work that is to be judged. Three would be enough; let the exhibits be numbered or lettered; let the judges judge by points as suggested by the AMERICAN FLORIST, and if the exhibits are of considerable importance they could give their reasons for arriving at their decisions. For if they are competent to judge, so are they competent to teach, and if they cannot give good reasons they are not competent to judge. If they are not willing to accept the position under these circumstances, the exhibitors are fortunate in being rid of an incompetent person. A SUBSCRIBER.

The Arrangement of Flowers.

I have read with great interest the comments on the New York show and admire the way in which Mr. Thorpe and "an exhibitor" "speak right out in meeting." They hit several nails on the head and with such force that I have no doubt they will do a great deal of good. The question of who are the best judges of floral art is a very important one and in the different class of exhibits I think judges should be selected who have had actual experience in that class. A grower will be far more apt to see the good points in plants such as shape, foliage, color, size and form of flowers, etc. and so will a person that has spent many years in the arrangement of flowers be more apt to see the good points in their arrangement.

The exhibitor asks if Mr. Thorpe would like to see his chrysanthemums cut off six inches long so as not to obstruct the view on a table decoration. We see no necessity to cut them off at all; we should use *tall slim* vases and allow the beautiful

flowers to fall in their own graceful way above the line of vision, leaving nothing to obstruct the view but the narrow shaft of glass, which is not at all objectionable in such a decoration. We should however put some low arrangements on the table in addition.

Who are Mrs. Astor and the Messrs. Vanderbilt that we should go to them for instructions as to the most artistic way to arrange flowers? Did they tell the artists how to put the paint on the pictures that are hanging on their walls? Did they tell the wood carver how to do his work, or the upholsterer how to drape their hangings, or did they give instructions how to blend the colors in the Gobelin tapestry that their money has enabled them to buy? We should be very glad to furnish them with all the flowers they use, but if they asked our opinion or if they left the whole work to us we should not arrange flowers for the table that would not allow them to see the guest sitting opposite.

I positively agree with "an exhibitor" in his remarks about the corsage bouquets. Why they should have ribbon on them I cannot understand. The boutonnières I think have also ribbon on them. We have done this a number of times for college or class colors, but never for an ordinary corsage or buttonhole bouquet.

Apropos, to ribbon, I think it is the abuse and not the use that is objectionable. Take a hand bouquet for instance, a handsome piece of ribbon if the color matches the flowers or dress, to my mind is in perfect taste and gives a finish to the bouquet. And on a basket, if it has a meaning, such as fastening flowers to the handle I do not think it objectionable. We have used large silk cord with good effect in many cases, but when we see it we try to see that it has a meaning.

H. H. BATTLES.

Pandanus.

Some two or three species of this interesting family of foliage plants are very well and favorably known among the trade for general use as decorative plants, and these doubtless comprise the best of the genus for general use, but for specific purposes some of the remaining species may well find a place, the majority being highly ornamental in all stages of growth.

Of course Pandanus Veitchii may be considered the pandanus for the florist, and with good reason too; its beautifully striped and graceful foliage giving a good effect whether it be used as a single specimen or in combination with other plants, and being easily grown and readily propagated (providing all available cuttings are put in from time to time), it has naturally taken a prominent place among regular decorative stock.

To grow the most shapely plants of this species it is well to put in small cuttings, the latter usually giving the best result, and also rooting more quickly than large sappy shoots, and in order to keep the plants in good condition they should be potted on as the roots require it, at the same time giving all the light possible without burning the foliage.

P. Veitchii may be grown on very rapidly by giving strong heat, but this practice may be over-done and the consequence be soft foliage and a want of clear coloring.

The second best species undoubtedly is P. utilis, an admirable plant when well grown, but a miserable thing if in poor condition.

As is well known, this species is multiplied by means of seeds, the latter being

imported in large quantities by the leading seedsmen and growers, and if fresh, germinating in a period varying from six weeks to three months.

The seed should of course be placed in a warm house, and some little care given to prevent the soil becoming sodden, as in the latter case the seeds are likely to fail. This plant does not produce any suckers or side shoots while in the small state as does the previous variety, and consequently cuttings are seldom used.

P. javanicus variegatus, or as it is now known, P. candelabrum var., is another pretty variegated species, though much inferior to P. Veitchii.

The leaves of this plant are much longer and narrower than those of P. Veitchii, quite pendulous in habit and handsomely striped with white, but have the disadvantage of being much more profusely armed with spines; those on the under side of the midrib being recurved in the opposite direction to those on the margin; this being a decided objection when it becomes necessary to pack a plant of such character among other plants in a wagon, or for shipping away.

This species also suckers freely, thus being easily propagated, and with plenty of light and moderate heat can be grown rapidly.

A pretty species for small work, such as window boxes, or even in small ferneries is P. graminifolius, a neat-growing plant of dwarf habit that has long been in cultivation.

It has dark green leaves about one foot in length, and half an inch wide, these being armed with small white spines, and the habit of the plant being tufted or freely branching it soon becomes of a useful size in fact pretty little plants may be grown in 3-inch pots.

As a large plant, P. graminifolius is of little value to a florist, but as cuttings seldom fail to root when placed where they will receive some bottom heat there is no difficulty in keeping up a stock of serviceable young stock.

Among the rarer species that are better suited for large specimens for exhibition purposes, P. heterocarpus (or ornatus) is notably good. It has somewhat the habit of P. Veitchii, but the leaves are plain dark green in color, and reach a length of five to six feet.

This species is propagated by seeds, and I have never seen it produce suckers, though the latter may possibly occur when the plant attains fruiting size.

P. Vandermeeschii may be briefly described as an improved P. utilis, being stiffer and more erect in habit, while the leaves are broader and chiefly of dark green color, the midrib and edges being brownish red, and the young foliage frequently somewhat glaucous. P. Vandermeeschii makes a remarkably handsome specimen and is well worthy of more extended cultivation.

The few species to which reference has been made do not by any means exhaust the list, though comprising those of greatest interest to the commercial grower, but many of the members of this genus are only found in botanic gardens or other extensive collections of like character, and would probably be of little value for our purpose.

W. H. TAPLIN.

The Violet.

Propagation: Two systems of propagation are practiced. For the one case the crown of the old plant is subdivided into as many single crowns as it admits, the single crowns are then potted into small pots and kept in a cool greenhouse



SPECIMEN PLANT OF *PANDANUS UTILIS* IN THE CONSERVATORY OF THE
ALLEGHENY CITY PARK.

or cold frame until planted out to make their growth during summer. The second and the best method is that of taking cuttings from the growing plants during February and March, place them in sand having a temperature of 65° and the house not to be warmer than 55°. If careful attention is given to watering, airing and other details the cuttings should be rooted in three weeks. They are then removed from the sand, potted into small pots and placed in a cool greenhouse. By May the young plants should be in condition to plant in the open ground.

Planting: The ordinary method is to set the plants out six inches apart in the rows, and twelve inches between. During the summer every attention should be shown the young plants, as the object is to have strong, healthy specimens by fall in order to insure quality and quantity of flowers for the winter months.

Cultivation: The ground should be kept thoroughly clean and open by frequent hoeing, all suckers and dead leaves should be carefully removed, and where possible during very hot, dry weather they should be watered towards evening. If proper attention has been given the plants during the summer they should be, by the first of October fine strong plants loaded with buds and in condition to be removed to either the cold frame or a cool greenhouse. If removed to the former, air should be given during the winter whenever the weather permits, and the plants should be kept clean as during the summer months. To have them in flower, however, requires a good, sunny greenhouse.

The violets when removed from the open ground should be lifted very carefully so as not to disturb the roots more than necessary. They should, when taken to the greenhouse, be planted on benches containing not more than four inches of light, rich soil. The temperature of the house should not exceed 45° at night; during fine days the air can be allowed to reach 55°; but should the day be cloudy a temperature of only 45° should be maintained. By careful attention to ventilating, watering and cleaning very fine violets should be obtained, which will amply repay for the trouble, care and anxiety they have given during the summer.

Owing probably to being somewhat weakened by over forcing, the violet has developed during the last few years, several killing diseases, and at one time it seemed as though this beautiful little flower would no longer be seen during the winter months; but this calamity has evidently been averted, largely through the fact that new localities have supplied the market to a limited extent, while the supply has nearly ceased from localities where the violet once reigned supreme.

The disease that has proved so troublesome and destructive is due to small encased nematoid worms, which eat into the center of the crown and either debilitate or entirely destroy the plant.

The violet when once weakened becomes an easy prey to several fungi, which grow on the stems and leaves and on the sepals and petals of the flowers; among the most injurious are the following: *Phyllotecta* Violet, *Urocystis* Viola, *Puccinia* Viola and *Cercospora* Viola.

Among the best varieties for forcing purposes the following can be recommended: Marie Louise, lavender, blue and white, very double and sweet; the Neapolitan, pale lavender, very light, double and sweet; Comte Brazza, white, double, sweet scented; The Czar, blue, large, single; White Czar, a white form of the Czar; Queen of Violets, white, flushed with pink, double; Russian Blue, single, large, very free; Victoria Regina, blue, double, large, fragrant.

It is to be hoped that the violet disease will be arrested, in fact there are indications that it is on the wane, for during the last winter a larger proportion of flowers have come to the New York market from Long Island and New Jersey than at any time since the disease first appeared in 1882.

JOHN H. TAYLOR.

Bay Side, N. Y.

A Big Crop of Out Door Violets.

The figures of crops of the different flowers given from time to time in your paper are interesting and to this end we submit the following example of a one seasoned kind of double violet, grown out of doors without protection other than a few dry oak leaves, that in our estimation is worthy of thought among flower growers for the market.

It is well known that as the hot days of spring approach violets of a perpetual blooming character like the Neapolitan and Marie Louise grow smaller and smaller until they cease to furnish flowers enough to pay for the picking.

Now as the "violet season" of native kinds is then just coming in and the streets full of them, their lack of fragrance so grateful in the offspring of the *V. odorata* class is likely always to create a demand for the "sweet violet" so long as the violet season lasts.

Richard J. Donovan, a Chicago grower, has for some years been nursing a batch of the double Russian violet on trial out of doors and at last appears to have struck the key note of success. The principal objection heretofore to their full acceptance in the market was a shortness of stem and enough at a time to make a market.

His bed now is 150 feet long by 6 feet wide, two years planted. The picking commenced this year April 25 and ended May 9, with a total pick of 34,000, which fetched readily 60 cents net per 100, or a total of \$204, a neat little sum from so small a space (and as it happened in his case otherwise useless ground) and well worth looking after.

To show the range of picking we give his figures:

April 25.....	550	May 4.....	3,000
" 26.....	1,400	" 5.....	3,100
" 27.....	1,050	" 6.....	1,900
" 28.....	2,100	" 7.....	1,500
" 29.....	3,000	" 8.....	1,600
" 30.....	3,000	" 9.....	2,350
May 1.....	2,700		
" 2.....	6,750		34,000

The Russian Violet: As is well known the sweet violet of Europe, *V. odorata*, is common as far north as Siberia. It is not unlikely that those of a northern type are a harder race than those of a southern. The first notice we have been able to trace of a Russian violet is in 1828, when the name appears to have been new and questions asked respecting it. This was a single variety. Twenty years ago or so many in the trade catalogued them about as follows: Violets, Russian, double and single; and that is about all the reference we can find either in this country or in England.

The Russian idea in name of Czar, Shoenbrun and some others was quite common among singles. Somewhere about the same time one called King of Violets, a large dark double blue also came out. But whatever may be the origin of the one Mr. Donovan has under the name of "double Russian" it has the characteristics to be sought for. These are first, hardness, so as to preserve full leafage, to get the flower stems as long as possible; second, thoroughly one season, so as to get a heavy crop in a short space of time; third, large size and a very deep color. All these this kind has in an eminent degree.

How these are grown: A portion of Mr. D.'s land is one of the scruboak ridges covered with rather small scrubby oak trees. In this is a slight natural depression, partially denuded of trees. Here the violet bed is made. It has thus partial shade in summer and partial protection in winter from the persistent foliage of the oak. The leaves that fall are allowed lightly to cover the plants.

The consequence of all this is a full old leafage of the violets in the spring. With this partial shade causes the flower stems to extend well upwards, all of which Mr. D. claims is essential as well as a rather close growing of the plants together for the same purpose.

The violet of Europe is classed by botanists as among the hill or rock plants and this dry position probably of a sand bank is favorable. Of course a good soil is given them to grow in and we observe a rather liberal mulching beneath the leaves when it can be applied of a rotten compost mostly of manure.

EDGAR SANDERS.

Long Island Notes.

BY WM. FALCONER.

LYCHNIS VISCARIA FL. PL.—A lady and her gardener were here the other day. We had a clump of this catchily in bloom and her eye caught sight of its vivid blossoms. "Oh, Adam," she exclaimed, "don't get any of that plant, whatever it is, for I cannot bear the color!" The color is described as "brilliant scarlet," "rosy red," "bright rose," etc., but there is purple in it, and I find that among refined people there is quite a prejudice against magenta, solferino and purplish red colors generally. At the same time I myself like this plant, for it is hardy, neat in habit and free blooming and it is in perfection about Decoration day, for which trade our local florists grow it largely.

WHY DON'T YOU ADVERTISE?—A neighbor of mine, a mail trade florist, ran short of Phenomenal, Mrs. E. G. Hill and Storm King fuchsias, to the extent of several thousands and wrote hither and thither for stock, picking up a few dozen or scores here and there, but never getting nearly enough for his demand. And he kept a sharp eye on the adv. cols. of the Florist every week without avail. And here comes a florist from Wisconsin, who tells me a firm in that State is carrying an enormous stock of these same fuchsias, and hasn't got rid of half of them. And why? My neighbor didn't advertise for what he wanted to get and the Wisconsin men didn't advertise what they wanted to get rid of, so both have had to suffer inconvenience and loss. You all may have what you consider stock enough when you issue your catalogue, but you know how trade will run here on some things, light on others, and you soon may run short of some things and have an overplus of others. Then is the time

to advertise for what you wish to get, also for what you wish to get rid of.

VARIEGATED-LEAVED FUNKIAS are now in their prettiest condition and very ornamental. And as they are perfectly hardy, long-lived, easy to grow and easy to increase, they are not bad stock to handle. Don't you remember when we went out to Mr. Hunnewell's beautiful garden near Boston at Convention time last year what a lot of the little much variegated *F. undulata* he had as edgings to the pathways in half-shady places and in clumps about the rockeries? Now, that visit of ours gave quite a boom to this little plant because we saw it there in good condition and admired it and at once concluded it was a good thing to have. But it isn't the only variegated funkia that is worth having. I have now the variegated forms of *F. cordata* and *F. lancifolia* as handsome as fancy caladiums; and clumps of the noble *F. Sieboldi*, which has immense glaucous leaves, handsomer than one-half of our fine-foliaged tropical plants.

DOUBLE WHITE PYRETHRUMS.—A florist at Queens who has a large stock of these is getting a cent and a half each for the cut flowers at wholesale in New York. And the double white one is the easiest to grow and increase.

INERIS CORREFOLIA is one of the handsomest of the hardy perennial candy tufts, and just now, a little while after *I. sempervirens* is past its best, is one sheet of snowy blossoms.

HEMEROCALLIS DUMORTIERI under its old name of *H. rutilans* is grown in quantity by some of our florists, and deservedly. It is a hardy perennial, now in bloom, and has orange yellow flowers tinged with brown on the outside. And still they will search from Jessé to Mozambique for novelties, while from their own back yard this beautiful plant appears to them in vain for recognition.

Some Useful Climbing Plants.

Stephanotis floribunda. This is a very free growing plant provided it has plenty of root room. Its beautiful waxy flowers, pure white and equal in fragrance to those of the jasmine, are very useful for fine floral work, and in England are used extensively by bouquet makers, especially so for bridal bouquets. It can be grown planted out in the border and trained over the roof of the greenhouse or else planted in a large pot or tub and trained on a trellis. It does best in a mixture of light fibrous loam and peat with a moderate amount of well rotted manure added to the soil. Be sure and give it good drainage and in spring and summer when growing freely abundant supplies of water. During the winter water sparingly, but do not let it get too dry. It is very subject to the attacks of mealy bug and therefore should be watched closely and as soon as any are seen should be sponged immediately, as they will destroy the flowers if allowed to remain undisturbed. It is easily propagated from cuttings.

Passiflora princeps (syn. racemosa). This is a noble greenhouse plant and its racemes of bright scarlet flowers are unsurpassed for decorative purposes. It is of very free habit and when it is planted out it is a rampant grower and stands any amount of cutting. I remember one many years ago that was planted out in a greenhouse and trained to the ridge pole. It extended the length of the house and was never out of flower, and for

years the only attention it got was a barrow load of manure at the roots once a year and an occasional soaking of water. It can be propagated from cuttings, but it makes much stronger and better plants if it is grafted on *P. edulis* or *P. quadrangularis*, as the latter are so much stronger rooters than principles.

Rhynchospermum jasminoides. This is a very old but useful plant, useful alike for floral work or as a decorative plant. When trained on small trellises it is useful for forcing and can be had in flower in the winter and early spring. In its general habit it resembles the jasmine. The flowers are produced in clusters, are pure white and very fragrant. The soil most suitable for it is a mixture of peat and loam. Being a native of Japan it does well in a cool house.

Bougainvillea. This is without doubt the most showy stove or warm greenhouse climbing plant in cultivation and the bright colored bracts of rosy flowers are very useful for cut flowers, especially for vases, large baskets or festooning pictures or mantels. It is impossible to describe the gorgeous beauty of a large plant of it when in flower, it must be seen to be appreciated. They are all of free growing habit and soon cover a large space, but should be starved at the roots. Therefore those that are planted out should be confined at the roots, and during the winter should be kept completely at rest, keeping almost dead.

B. glabra makes a very satisfactory pot plant. It requires thorough resting during winter and must be pruned early in spring and started in a brisk heat when it will soon show its beautiful rosy bracts and continue flowering through the summer, producing an abundance of flowers on every shoot. It does best in a light fibrous loam and is readily propagated from cuttings taken from the half ripened wood, put in a good bottom heat.

B. speciosa is much larger and stronger than *B. glabra*. The stems are branched and are provided with large serrated spines. It bears very large panicles of delicate rose, and when in full flower covers the entire plant with a mass of beautiful coloring, the effect of which is indescribable. This plant should be planted out and it may be several years before it flowers freely, but when it does begin it will continue to do so and amply pay for waiting. It should not be pruned more than to keep it within bounds, and then only in spring before the growth commences.

Maywood, N. J.

JAS. S. TAPLIN.

The Mosquito Catcher Plant.

Rejoice New Jersey and be glad Long Island, the music of the festive mosquito has been changed to an agonizing wail, for out of the Flowery Kingdom has come a trap for the unwary, and the blood-thirsty rascal pays for his supper with his life.

It belongs to the milk-weed family of plants and is known botanically as *Vincetoxicum acuminatum*. Generically it has both good and bad relations, for instance the showy *Asclepias tuberosa*, the favorite hoy and the delightful *stephanotis* all belong to the same family, and so too does the fetid *stapelia*.

And this mosquito catcher is a real pretty, hardy, herbaceous perennial and well worth having for its beauty as a garden plant. It grows about 18 to 24 inches high and forms a good bushy clump of somewhat slender shoots that have opposite leaves and axillary loose clusters of starry white blossoms that



THE MOSQUITO CATCHER PLANT. [VINCETOXICUM ACUMINATUM.]

are borne abundantly in May and June and scattering all the summer. In the centre of the flowers in the clefts of the corona is secreted a viscid juice which is peculiarly attractive to mosquitos and some other flies, but woe be to the unwary, whoever dips his proboscis into the alluring liquid never draws it out again for it is held fast and no amount of tugging and plunging and buzzing will free the insect from its cruel captor. Mosquitos often live for two days or more in this trap, but once caught they never escape.

Now here is an interesting, beautiful and useful plant. It is of little avail for cut flowers as it wilts soon after being cut, but if you wish to attract the attention of the children what plant can you place before them that will interest them more? Your own little boy or girl will bring around every little play mate and acquaintance it can scrape up to see the Japanese plant that catches mosquitos. And not only do they see the plant itself, but the mosquitos too that it has caught. It is an indelible object lesson, and there isn't a boy or girl in the country who doesn't want one of these mosquito plants for him or herself and another for his or her mother. Then why don't you, like the world renowned Barnum, do something to please the children? They want mosquito catcher plants. W. F.

ONE of the features at the recent rose festival at Los Angeles, Cal., was "the hanging gardens of Babylon." This might be suggestive to the decorator searching for new ideas.

YOU WILL benefit the FLORIST by mentioning it every time you write one of our advertisers.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XXVIII.

A CUT FLOWER CONTRACT.

In trouble with one of your customers, are you? Well, the world is full of trouble; it began early and will last late.

You say this is a question of construction of a contract. I am not surprised that you business men have trouble in construing your contracts, for two reasons:

First, you enter into them without looking ahead to examine all their possible bearings. Secondly, you don't hesitate, when once in them, to make modifications, or in other words, contracts upon contracts, until the confusion is such, that not even a member of the Blackstone family can see any way out of the medley.

Good, I have listened attentively to you; your contract was as follows:

Your customer agreed to take all your cut flowers for four months, payment to be made on the first day of each ensuing month.

The account was paid only once according to the contract and then the customer made default. You continued to supply him however, for two months longer, and then gave him notice that unless all back indebtedness was paid up, you would discontinue shipment, and as your notice called forth no response you did actually discontinue shipment and begin to deliver your merchandise to a commission man.

In other words, you regarded the contract as at an end, as you had a right to do.

Now let us look at your position at

this moment. What was your remedy? It was a twofold one. You could have continued to ship the customer the cut flowers until the end of the four months and then sue him for all sums due on the contract. But you preferred to give notice of your intention to rescind the contract on account of his default in payment in accordance with its terms.

Your other remedy was to regard the contract absolutely at an end and to sue for all sums due to the date of the default. But you did neither of these two things, for after two weeks, upon receipt of a part of the money due, you resumed shipment just as if no default had been made by your customer, and continued to ship until the end of the four months. In other words, by accepting his money and again shipping to him the cut flowers you acknowledged the contract to be still in existence.

Now your customer takes the position that you must make good to him the loss sustained by him by not receiving any cut flowers during the two weeks above referred to. Such a claim is preposterous and to concede it would be violating one of the elemental principles of law, that no man shall profit by his own acts of negligence or default.

To understand exactly the legal questions involved in this business transaction let me explain that there was first a contract fixed and definite in its terms; then a repudiation of it by you for good legal cause; then a tacit but actual resumption of it by the parties to it.

Now the two weeks must be belittled from it entirely, just as if they never existed, for by resuming operations under the contract, without giving each other any notice of claim for damages, you simply rehabilitated what had ceased to be of any binding force upon you.

Your customer can have no claim for damages against you for the reason that the contract was abandoned by the parties to it for the space of two weeks. During this time he received no merchandise and had no merchandise to pay for. But he may add: Not having the cut flowers, I could not fill my contracts and my customers hold me responsible. This is the result of his own default and he cannot be permitted to take advantage of it.

A contract once entered into continues until it is lawfully ended. It may expire by its own limitation. It may be ended by the default of one of the parties. It may prove to be too hard in its conditions to be performed. It may have originated in fraud. It may be ended by the consent of all the parties to it, or in some cases by the death of one of the parties.

This contract was ended by the default of one party with due notice given. True, it would have been more business like to have made a fresh start with a new contract, and then all chances of claims & damages would have been cut off. As it was, the old contract was revived and your customer was responsible to you for all merchandise delivered under the original contract; that is, up to the full term of three months and a half.

But suppose we admit his claim for damages; then arises your claim for losses sustained and you see the one offsets the other in equity.

I need hardly tell you that it would have been more business like for you to write your customer upon receipt of a payment after default: "Dear Sir: Yours received, covering check for \$50, on acct. of merchandise shipped you. There must be a new memorandum of terms, prices,

etc., before I can ship you any more goods. Shall I ship you from this date in accordance with the terms of the old contract?"

In other words, you should not have complicated the transaction and thus given rise to claims for damages.

Yes, I understand, it is the old, old desire to do business, even at a risk of complications. Taking the chances, men call it, and a very bad thing it is sometimes, to take the chances. The trouble in all such transactions as this is that the customer has had the merchandise and you have not had your money.

You are put to the expense of an action at law to collect, and the matter is still further complicated by the fact that your customer lives possibly a hundred miles away and you must entrust the matter to a stranger. You can't give it your personal attention. In this case, a little caution would have saved you all this trouble.

You must bear in mind that a letter and the reply to it, make up a contract, and if you are careful to keep prescopies of your letters, you have a complete statement of your case when you come into court. This is the only true business way. The moment a man takes a thing for granted that moment his trouble begins. True, men get along for years without a scratch of a pen between them, but what good is all this if the trouble comes in the end after all? State the terms of sale fully in your letter and don't ship until you receive a reply accepting the terms and conditions.

UNCLE BLACKSTONE.

Society of American Florists.

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The Nomenclature Committee will meet in session at the Queens Hotel, Toronto, at 9 A. M., the day before the S. A. F. convention takes place in that city next August.

The Nomenclature Committee.

Now that the rush of spring business is over please try to help us. In helping us you are helping yourselves and every florist in the country. If you know of any case in which plants are being disseminated under wrong names bring it to our notice; no matter whether these cases are accidental or intentional, let us know about them. We wish to get up a good report and will do our best towards it, but if you do not help us our efforts will be as 13 to 6,000; but if you all set to

help us our report will be worth listening to, and as 6,000 to 13. Please address any member of the committee you choose.

And as one or two prominent garden amateurs have kindly written to me about the Nomenclature Committee work, I wish to say to these and all others, that we invite and heartily appreciate their co-operation with us.

WM. FALCONER.

Chicago.

At the last meeting of the Florist Club in the discussion of Mr. Bentley's paper on the arrangement of flowers, which appears elsewhere in these columns, all practically agreed that there was need for a larger and more varied supply of foliage for use in arrangement, but the majority expressed doubt as to the willingness of flower buyers to pay an adequate price for such supply. Several maintained that it would be useless to attempt to charge for "green"; that in the majority of arrangements the customer ordered a certain number of flowers, and the work of arrangement and any accessories necessary to complete it must be "thrown in" without charge. But one speaker, who grows some of the flowers he retails, said that he had been able to sell his carnations at a considerably increased price by mixing a few sprays of carnation foliage in his bunches of these flowers. He said that his customers told him his prices were higher than those of other florists but they liked the additional foliage well enough to pay the difference. He maintained it didn't make any difference how you got a fair price for the foliage so long as you got it. But the majority of those who took part in the discussion were of the opinion that the great mass of flower buyers would have to be made to better understand the fact that the cost of producing good foliage was about equal to that of producing good flowers, before its production could be made profitable. All admitted a rapidly growing demand for foliage and their opinion was general that no foliage was better to associate with a given flower than that from the plant on which the flower grew. The necessity of having the foliage used in arrangements properly "hardened" so that it would last well was also mentioned.

During the discussion one member spoke disparagingly of certain floral designs, sometimes made up, which are supposed to represent objects used by, or suggested by the occupation of the late lamented life, such as firemen's hats and ladders, street cars, telephones, locomotives, patrol wagons, etc. He considered it the duty of florists to dissuade customers from ordering such designs, and under no circumstances to suggest them. All assented that such designs were not to be encouraged, but one storekeeper said that if a customer came into his place when he had an icebox full of flowers going to waste and wanted a horse collar or some such monstrosity made of flowers and would pay good money for it, he feared that his desire to maintain the dignity of the profession would succumb to the demands of the cash drawer. But all bore witness to the fact that the demand for such designs was rapidly decreasing, indicating continual improvement in the taste of flower buyers.

No further action was set by the committee of the World's Fair Directory. The report that nothing would be done until June 9 was apparently correct.

Trade last week was very active. Dec-

oration Day was by far the busiest day the trade has seen for many a year. With a fairly good supply the market was entirely cleaned out by Friday night. Beside a good local trade there was an extraordinary demand from the country; every dealer was as busy as a bee and happy as a lark in consequence. Prices of course jumped away up, at least at the majority of the commission houses the prices of most every kind of flower had doubled. Two or three of the wholesale men be it noted only advanced their prices on roses on the average of about \$1 per 100.

Saturday, Decoration Day, prices began to climb downward, stock plenty and demand slack. American Beauties and Jacques are more plentiful and the quality is fairly good.

Roses of every kind are in fair supply, and probably as good quality as might be expected at this season of the year. Owing to the demand for white and light flowers, Brides and Niphetos were rather scarce. This accounts for the high prices these varieties brought.

Snow balls were the stand-by to the retailer, on account of the scarcity of white carnations this season. They were used in designs for cemetery decorations. Cape Jasmines are plentiful; some very fine ones bring \$2 a 100, poor to medium can be bought for 50 cents to \$1.50 per 100.

Boston.

The greatest surprise in Decoration Day supplies was the abundance of carnations, especially the white ones. Prices on these went to pieces at the last hour, and on Decoration Day Tremont street was fringed on both sides with boys, each displaying a big basket of carnations, the supply of both boys and carnations seeming to be next to inexhaustible. Roses sold out clean and many more might have been disposed of, if they could have been obtained. In hardy shrub flowers and other out door stock there was a good assortment, much better than was expected, the steady cool weather having sufficed to keep over the dentzias, snowballs, lily of the valley and even some of the lilacs. The day preceding the holiday was disagreeable and rainy, the retail sales being curtailed in consequence, but the prevailing opinion is that the trade has been in general equal to that of last year, and quite satisfactory all around.

There are a great many weddings to take place in June, and this fact, together with the increasing use of bouquets and baskets for school graduations insures a good and profitable trade throughout the coming month. With average June weather the prospects are that out door roses will be earlier than the average. The great Rose and Strawberry Exhibition of the Massachusetts Horticultural Society will take place on June 23 and 24.

W. J. S.

New York.

Trade during the early part of the week was very quiet, but the increased demand for Decoration Day changed the condition of the market considerably.

Flowers of all kinds found a good market. White flowers especially were very scarce. The average prices obtained were much better than last year.

The decorations at the wedding of Miss Evelyn Baker to Harold St. John, 258 Madison Ave., were executed by Mr. Stump. The mantels were banked with LaFrance roses. The temporary chandeliers were filled with choice palms and ferns.



VICTORIA EMBANKMENT GARDENS, LONDON.

Around the couple was a bower of Madam Cusin roses, trailing from this were garlands of lily of the valley.

In the dining room there were thirty-six tables decorated principally with American Beauty and LaFrance roses. In the hallway were hung garlands of roses and Asparagus tenuissimus. Mr. Stumpp spoke of this decoration as one of the finest he had this season.

Mr. and Mrs. Robt. C. Patterson of Pittsburgh, are visiting us this week.

On Wednesday, May 27, Mr. James Weir died at his residence, Bay Ridge, L. I., in the 84th year of his age. Mr. Weir was one of the pioneer florists of Brooklyn, and was senior member of the firm of James Weir & Sons, Brooklyn.

Sarah E. Benz, wife of Albert Benz, the famous pansy grower, died May 28, at Douglaston, L. I., after a very brief illness. Mr. Benz has the sympathy of all florists in his great affliction.

JOHN YOUNG.

Buffalo.

Scott effectively decorated Music Hall, stage and boxes on occasion of the May Music Festival recently. Laurel roping and curtains, and a row of foliage across the stage supplemented by groups at each end, were employed.

Our general, the genial and gentle Thorpe, was our recent guest. Prof. J. F. Cowell more particularly doing the hospitable. The big-heartedness of the latter projected an excursion to the far-famed Valley of the Genesee, which included a visit to Portage Falls, the noted high bridge over the gorge, deep or high enough to be called a canon in the West, and the extensive eight hundred acre tract of wild growth and scenery named "Glen Iris." This, through the munificence of its owner, Hon. W. P. Litchworth, the noted philanthropist, is

thrown freely open to the general public.

The party, consisting of a sextette, as follows: Thorpe, Cowell, Scott the great, Mepsted, D. B. Long, and last, but not least, modest Wm. Mott, of the Quaker City. After a two hour's ride and listening to impromptu dissertations on botany, hybridizing and (coal-d) storage, of which much was seen near Buffalo, the party did ample justice to the appetizing dinner set forth by our host Varicke, who in his extended peach orchards, strawberry beds, and well trained clumps of lilacs about the premises shows himself to be competent in horticulture as well as hotel keeping.

An extended ramble through the glen followed, up and down, in and out, each turn showing a picture of nature's growth vied only by its successor. The last Indian built council house, occupied in its time by the Senecas on these grounds, and near it repose the mortal remains of Mary Jamieson, a white woman who had been captured by the Indians in childhood, and whose later career, and the vicissitudes she passed through before her death, at ninety-two years of age, form an interesting chapter in the early history of Western New York. Her grave was reverently strewn with wild flowers before our general took himself from its locality. The botanical specimens secured by the brighter lights were numerous. The manner in which Cowell's and Thorpe's eyes lighted on small but choice things and specimens of *Cypripedium acaule*, where the rest of us would see ordinary wild growth only, was surprising. The valleys and scenery so entrancing left no time hanging heavy before the return at 5:30 p. m. The Warsaw Valley, dotted by numerous salt works of recent build, showed beautifully in the waning sun light. The water supply reservoir at this place, close

by the railroad, came in for its share of attention at the instance of the professor's most sober statement that in his younger engineering days he constructed it, and sad to state, evoked a wicked criticism from Scott on its unfinished appearance. The city was reached again at sunset, and the Cowell excursion voted a success with many thanks to its projector.

Roses at fivecents retail, are offered by a prominent Main street florist, and good quality Perles, Mermets, and the like at that. Is it any wonder we don't need the fakir to help us to lower the prices?

L. B. D.

New Plants.

To me has been assigned the preparation of the report on NEW PLANTS to be read at the Florists' Convention in Toronto next August.

As you all know, no one man knows all of the new plants or about them, at least I do not. But as this report should be full, comprehensive and impartial, I earnestly invite the assistance of every florist and other horticulturist. From me alone you cannot expect or get more than my own opinion of the New Plants I know, but if you tell me about the New Plants that you know and have tried, then I will include your report with my own and give you full credit for it. And while I shall very much appreciate the reports of specialists in orchids, palms, ferns, carnations, chrysanthemums, bedding and other popular plants, I also am anxious to get all the information possible from other growers. Please note that I ask for this information and assistance so that I may compile it and return it to you in the form of a report on New Plants at our next convention.

Glen Cove, N. Y.

WM. FALCONER.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
 Inch, \$1.40; Column, \$14.00.
 Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
 26 times, 20 per cent; 52 times, 35 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

June 6, Boston.—Rhododendron show Mass. Hort. Society.

June 17, Providence.—Rose and strawberry exhibition Rhode Island Hort. Society.

June 18, Hartford, Conn.—Rose show Hartford County Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

June 29, Hamilton, Ont.—Rose show Gardeners' and Florists' Club of Hamilton.

July 22-23, Toronto, Ont.—Flower show Toronto Electoral District Agricultural Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 22, Hartford, Conn.—Fall exhibition Hartford County Hort. Society.

September 23, Galt, Ont.—Fall exhibition Galt Horticultural Society.

November 3-5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 2-8, New York.—Chrysanthemum show Madison Square Garden.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 3-6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club.

November 3-7, Detroit, Mich.—Chrysanthemum show Detroit Florists.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society.

November 10-12, Pittsburg.—Chrysanthemum show Pittsburg and Allegheny Florists' and Gardeners' Club.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society.

November 10-12, Toronto, Ont.—Chrysanthemum show Toronto Gardeners' and Florists' Club.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

November 11-12, Worcester, Mass.—Chrysanthemum show Worcester County Hort. Society.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society.

November 11-12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club.

November 11-13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society.

November 11-13, Utica, N. Y.—Fall exhibition Utica Florists' Club.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society.

November —, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore.

November —, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society.

November —, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society.

A copy of the premium list for the second annual chrysanthemum show of the Toronto Gardeners' and Florists' Club, to be held Nov. 10 to 12, next, has been received. Copies may be had on application to the secretary, Mr. A. H. Ewing, 276 Victoria street, Toronto, Ont. The copy we have received encloses an entry blank, and we take this occasion to call the attention of the many organizations who neglect this detail to its value. You will have to have an entry blank printed anyway, and an extra thousand or so costs but an insignificant trifle, therefore have them printed when you get up your premium lists and mail together. The absence of the blank at the time the premium list is received and the trouble of sending to the secretary for one, may be the trifle that will lose a good exhibit. To have your premium list at its best work, everything should be complete when it reaches the recipient, so that if in the mood he may at once jot down the classes in which he may think of competing. It is a simple matter to afterward mail additional blanks on request to those who may have overlooked those first received. Printed matter is cheap, especially additional copies, after the type has once been set, and we believe that it would be well for the managers of all exhibitions to mail both premium lists and entry blanks more than once to the same individuals. For the chrysanthemum shows the list should have been mailed before this date. But along in August, when the matter has dropped a little out of sight with some, and the premium lists, blanks, etc., have probably been mislaid, if another one reached them, it would bring the matter freshly to mind and probably secure additional exhibits. And a third one in October, only a few weeks before the exhibition would be a good time to mail still another, always enclosing entry blanks. It would then be too late for any preparation, but the recipient might have something in hand that needed no preparation, and if he had something, he had begun to give up the idea of showing it, this reminder might be the straw to throw his decision favorably to exhibiting. It is in the nature of advertising. It pays to advertise rightly, and we believe this is 'the right way for managers of exhibitions to advertise in order to secure exhibits. Don't give any possible exhibitor a chance to forget the exhibition and its possibilities, and the cost of the several remailings as noted above is very slight, while the possibilities are large.

THE second annual banquet of the trustees of the Missouri Botanical Garden, under the provisions of the will of Henry Shaw, occurred at the Mercantile Club, St. Louis, the evening of May 21. Eighty guests were present. Bishop Tuttle acted as toastmaster and responses were made by Prof. Waterhouse, of Washington University; Hon. John W. Noble, Secretary of the Interior; Hon. George Lawson, Secretary of Agriculture of Nova Scotia; Mr. Given Campbell; Prof. C. V. Riley, U. S. entomologist; Congressman Niedringhaus, and Professor Coulter, of the Indiana State University.

MR. H. W. BUCKBEE, the florist and seedsman of Rockford, Ill., passed through Chicago last Saturday on his way home from California where he and his wife spent the winter. Mrs. Buckbee did not return with him; she will remain on the coast for at least a year, for the benefit of her health.

SOME SPLENDID blooms of *Gardenia florida* were recently received from Mr. R. Nicholson, of the Fort Worth Nursery and Seed Co., Dallas, Texas. Though sent by mail they arrived in excellent condition, but they were very carefully packed.

ONE OF the novelties in the parks of Allegheny City, Pa., this summer is a bed in which the head of a lion is depicted in echeverias.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash in advance. No money order. Plants, etc., not admitted under this head.

SITUATION WANTED—By competent florist and gardener at once. No references. Address W. W. CROZIER, 125 S. Sheldon st., Chicago.

SITUATION WANTED—A first class maker-up to secure a position for the summer months out of town. Address G. W. HUMPHRIES, 232 West 47th street, New York.

SITUATION WANTED—By a German, single, as S. first hand in floral work, quick and artistic worker. Address, stating salary, H. E. care American Florist, Chicago.

SITUATION WANTED—As foreman in a greenhouse establishment; understand forcing of cut flowers and Jack roses for Christmas; 8 years experience. Best of references. Address, stating salary, H. OLSON, 26 State St., room 70, Chicago.

WANTED—A single man who understands greenhouse and cut flower work—one who would like to work on threes. D. box 136, Brunswick, Maine.

WANTED—Young lady for florist store; one who has had some experience in making up designs, etc. Address St. E. Madison St., Chicago.

WANTED—A good gardener and propagator, and man capable of doing any kind of work on a large or small scale. Address H. H. MOORE, 54 Beale St., Memphis, Tenn.

WANTED—A married man who has had experience on a commercial place, to take half interest in a nice place. Nine place, nice well heated. A good man can find a bargain with small capital. Address H. H. MOORE, 54 Beale St., Memphis, Tenn.

WANTED—Man for 2 years or more. Must be steady and understand forcing roses, carnations and all winter blooming buds. Can board with owner. State salary wanted by the year and references. A nice place for a good man about June 15th. Address OTTO BOY, care Am. Florist.

WANTED—PARTNER—A competent, reliable man, with \$25,000 for the purpose of being secured. Must know how to raise cut flowers and plants. Unlimited trade now well established. Present manager can find sale for all that is raised. 10,000 feet of glass, 2 acres of ground; can do a business of \$10,000 per annum. Address H. H. MOORE, 54 Beale St., Memphis, Tenn.

FOR SALE—A cheap—A locomotive steam boiler, 50-horse power. For further particulars, address J. S. F. SMITH, P. O. Box 140, Burlington, Vt.

TO RENT—Two large greenhouses in good locality of Chicago. Rent for 1 year, \$1000 each. Address J. S. F. SMITH, P. O. Box 140, Burlington, Vt.

For Sale.

A fine lot of *FICUS ELASTICA*, 3 to 4 feet, well furnished with leaves; 5 and 6-inch pots. Also *Ficus Nitida* and a fine lot of *Carex Jasminifolia* in bud. HENRY MOORE, 54 Beale St., Memphis, Tenn.

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79 Lake Street, CHICAGO.
(Successor to Vaughan's Cut Flower Dept.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS. WHOLESALE FLORISTS,

27 Washington Street, CHICAGO.
All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 H.
ALL SUPPLIES. **42-WIRE WORK A SPECIALTY.**

A. L. RANDALL, (SUCCESSOR TO) C. H. FISK, WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES, 116 Dearborn Street, CHICAGO. OPEN NIGHTS AND SUNDAYS. WIRE DESIGNS IN STOCK.

E. J. HARMS, Wholesale Dealer in CUT FLOWERS, And Florists' Supplies.

89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

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All Flowers in season. Prompt attention
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Wholesale Florists

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CUT FLOWERS.

The Western Trade Solicited.

Write or Telegraph.

SMITH FLORAL CO.,

77 7th Street S. - Minneapolis, Minn.

E. G. HILL & CO., RICHMOND, INDIANA.

Send for our January Trade List. A full line of
the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST FLOWERS:
ROSES, CARNATIONS, BEGONIAS, CHRYSANTHE-
MUMS, ETC., and the very best imported
FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.
Mention American Florist.

Palms and Dracaenas.

The largest stock in the west, at \$5.00 per 100 to
\$1.00, \$2.00 to \$10.00 each. Cycas revoluta, 50c to
\$5.00 and \$15.00 each. Cycas leaves 25c to 50c each.
DRACENA INDIVISA and VEITCHII,
3 inch pots, strong, 15 to 18 inches, 85c per 100.
Send for wholesale price list and descriptive cata-
logue.

W. J. HESSER, Plattsmouth, Neb.

When you write to any of the ad-
vertisers in this paper please say that
you saw the advertisement in the
AMERICAN FLORIST.

Wholesale Markets.

Cut Flowers.

	BOSTON, June 1.
Roses, Niphetos, Gondiers.....	2.10 @ 5.70
" Perles, Suzette.....	3.00 @ 5.00
" Mermets, Brides.....	1.00 @ 5.00
" La France, Woodton.....	1.00 @ 5.00
" Jacquets.....	12.00 @ 15.00
Carnations.....	10.00 @ 12.00
Valley.....	4.00
Stocks.....	2.00
Deutzia.....	1.00
Smilax.....	15.00 @ 19.00
Asparagus.....	50.00
Adiantum.....	1.00

	CHICAGO, June 2.
Roses, Am. Beauties.....	12.00 @ 15.00
" Jacquets.....	5.00 @ 12.00
" Mermets, La France, Albany.....	5.00 @ 7.00
" Brides.....	3.00 @ 10.00
" Niphetos.....	5.00 @ 9.00
" Perles, Gondiers.....	4.00 @ 5.00
" Bon Silences.....	1.00 @ 2.00
Carnations, long common.....	1.00 @ 2.00
Carnations, " fancy.....	1.50 @ 2.50
Valley.....	2.00
Callas, Harrison.....	10.00 @ 15.00
Peonies.....	5.00 @ 8.00
Smilax.....	15.00 @ 20.00

	PHILADELPHIA, June 1.
Roses, Brunners.....	15.00 @ 30.00
" Beauties.....	15.00 @ 25.00
" Lairs.....	15.00 @ 30.00
" La France, Albany.....	5.00 @ 7.00
" Mermets, Brides.....	5.00
" Cusins, Watervilles.....	4.00
" Perles, Niphetos.....	4.00
" Hosts, Woodton.....	4.00
Valley.....	3.00 @ 4.00
Carnations.....	50 @ 1.00
Adiantum.....	50 @ 1.00
Smilax.....	15.00 @ 20.00
Sweet peas.....	1.50 @ 2.00

	NEW YORK, June 1.
Roses, Beauties.....	5.00 @ 25.00
" Bon Silences.....	50 @ 1.00
" Perles, Gondiers.....	1.00 @ 2.00
" Niphetos, Sous.....	1.00 @ 2.00
" Mermets, Brides, Cusins.....	1.00 @ 4.00
" Watervilles, Hosts.....	1.00 @ 2.00
" La France, Albany.....	2.00 @ 5.00
" Woodton.....	1.00 @ 2.00
" Jacquets.....	5.00 @ 6.00
Valley.....	1.00 @ 2.00
Carnations, long.....	50 @ 1.00
Mignonette.....	50 @ 1.00
Smilax.....	15.00
Narcissus.....	1.00 @ 2.00
Harrill.....	5.00 @ 6.00

WM. J. STEWART, Cut Flowers & Florists' Supplies

WHOLESALE.

67 Bromfield Street, BOSTON, MASS.
Mention American Florist.

N. F. MCCARTHY & CO.

Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carna-
tions always on hand. Return telegrams sent
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AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.

WHOLESALE CUT FLOWERS AND FLORISTS' SUPPLIES.

THE WISCONSIN FLOWER EXCHANGE,
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H. SCHULTZ & CO., MANUFACTURERS OF

Paper Boxes for Florists.

Special long stem Rose Boxes,
one 10 x 4 x 3 inches.
FOUR IN SET
12 x 5 x 3
10 x 7 x 3
12 x 9 x 3

Price, \$20 per 100 sets, packed, F. O. B. Chicago. All
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Every Florist, Nurseryman and
Seedsmen should have one.

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W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS,

No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.
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51 West 30th St., NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST

53 WEST 30TH STREET,
NEW YORK.

A. S. Burns. J. I. Raynor.

BURNS & RAYNOR, WHOLESALE FLORISTS, 11 West 25th St., NEW YORK.

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SPECIALTY.—Filling Telegraphic Orders.
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Rose Hill Nurseries,
NEW ROCHELLE, N. Y.

New and
Rare Plants

Hardy
Plants,

ORCHIDS,
PALMS,
FERNS.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

A FRESH CONSIGNMENT OF MEXICAN ORCHIDS

Such as Lelia anceps (winter bloomer), Lelia
albida, Cattleya citrina (extra fine), Epidendrum
vitellinum majus, Odontoglossum aureum (true),
Odontoglossum maculatum, Oncidium ortho-
rhychnum, etc., etc., at very low prices.
Write for price list.

FREDERICK MAU,
P. O. Box 322, South Orange, N. J.

ORCHIDS.

The finest stock in the WORLD. Nearly five
acres devoted to their culture.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.
A. DIMMOCK, Apt. 205 Greenwich St., New York City.

The Good Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOCH, Cincinnati, president; JOHN FORTRESS, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

MR. LEM BOWEN, of D. M. Ferry & Co., will make a European trip for the firm this summer.

The executive committee of the Seed Trade Association are said to have arranged a carefully prepared programme for the Cincinnati meeting.

THE A. B. CLEVELAND SEED CO. have removed their head office from Jersey City to Cape Vincent, N. Y., where they invite the trade to visit and inspect crops.

THE A. C. NELLIS CO. affairs are still badly mixed. The latest move is the arrest of Mr. A. C. Nellis on a charge of forgery.

THAT HARD DAY for seedsmen, June 1, is again at hand. Let us hope the past good season has brought the boy through with a good balance on the right side of the ledger. Of course we shall hear all about it at Cincinnati.

Washington.

Orchids are evidently becoming great favorites at the White House. During a recent visit to the conservatories there I observed several hundred plants of different varieties, among them a group of some twenty-five cattleyas in bloom, a superb specimen of *Sobralia macrantha* and an exquisite *Dendrobium filiforme*.

The space in Lafayette Square facing Pennsylvania avenue and immediately facing the White House where the foundation of the Lafayette monument was originally laid, has been converted into a most artistically arranged mound of immense latanias interspersed with rhododendrons and fringed at the base with pandanus. A finer grouping of tropical plants, covering an area of nearly 1000 square feet, it would be difficult to find anywhere.

Fisher, on Pennsylvania avenue, has lately shown exceptional good taste in his window displays, by simple but effective arrangement of colors.

The Miller Brothers have opened a well stocked florist's establishment on Fourteenth street opposite All Souls church.

The large floral representation of the U. S. Capitol Building (which the Smalls after exhibiting here presented to the Elks of this city, and was fully described at the time in the AMERICAN FLORIST), I see, was awarded the first prize among the competitive "floats" taking part in the recent great conclave and turnout of the National Council of Elks at Louisville, Ky.

BROOKFIELD, Mo.—On the morning of May 20 a severe hail storm smashed about 1,000 lights of glass on the green-houses and hotbeds of Joseph Gamble. No insurance. It was the most severe hail storm known here for 20 years.

CHATTANOOGA, TENN.—Mr. A. Hallett, formerly of Pittsburgh, has leased property on Whiteside street, where he will conduct the business of florist and nurseryman.

WHEN WRITING advertisers please say that you saw the adv. in the AMERICAN FLORIST.

HERMAN BUDDENBORG,

HILLEGOM, near Haarlem, HOLLAND,

WHOLESALE GROWER OF ALL KINDS OF

DUTCH BULBS AND ROOTS

Inform all intending purchasers that it will pay them to write for his wholesale price list. Special prices will be given to large importers on application. Prime quality at the very lowest prices is guaranteed by

HERMAN BUDDENBORG,

WHOLESALE DUTCH BULB GROWER,

HILLEGOM, NEAR HAARLEM,

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Mention American Florist.

HYACINTHS, TULIPS, SPIRÆAS,

FREE OF DUTY NOW.

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AMERICA NURSERIES, HILLEGOM, HOLLAND,

Beg to announce to the trade their Price List is ready, and will be mailed free on application to their Agent in the U. S.

C. H. JOOSTEN, 3 Coenties Slip, NEW YORK.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

Pontederia Crassipes Major or

WATER HYACINTH, Wanted.

State quantity and price.

ALSO LIGHT COLORED GLADIOLUS.

ELY'S SEED STORE,

Lock Box 1176.

PHILADELPHIA, PA.

DAFFODILS FOR FALL DELIVERY.

We have had no frosts or snow in South of Ireland as in Holland and South of England, therefore Bulbs are very promising. Wholesale lists post free, and July delivery guaranteed. Collection complete and prices very moderate.

WM. BAYLOR HARTLAND, F. R. H. S., Seedsmen,
CORK, IRELAND.

DAISY SNOWFLAKE

At a great reduction for the next 30 days to give every florist a chance to secure some of this profitable Daisy. Order early as the stock is going fast. Fine, strong plants by Express, \$4.00 per 100; free by Mail, \$1.00 per dozen.

FRED SCHNEIDER, Wholesale Florist,

Wyoming Co., ATTICA, NEW YORK.



TRY DREYER'S GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

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Philadelphia

POT GROWN and HEALTHY

Asters, mixed, 3 to 4 in. high, 2-in. pots	\$1.00
" in var. " " "	.50
Lobelia compacta, strong, " " "	1.00
" " good plants, " " "	.50
Cosmos, large flowering, " " "	1.00
" " " " " " "	1.50

Cash with all orders.

W. T. STEPHENSON, Petersburg, Ill.

W. W. BARNARD & Co.

6 and 8 North Clark Street,

CHICAGO,

are quoting lowest prices on

Fall Bulbs

SEND YOUR LIST IN NOW.

LILY OF THE VALLEY PIPS.

(Selected strong 3-year-old Pips.)

For terms and particulars apply to

WM. HAGEMAN,

Eighth and McKean Sts., Philadelphia, Pa.

Sole agent for the U. S. for the United Hamburg and Berlin Growers. Office Hamburg Pferdemarkt 23. Highest U. S. reference furnished as to quality.

LILY OF THE VALLEY

Very Strong Flowering Pips.

Offers for the AUTUMN, in LARGE QUANTITY.

JULIUS HANSEN, Pinneberg, Germany.

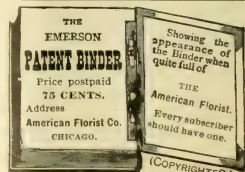
LILY OF THE VALLEY NURSERY.

Large Lily Medal, Berlin, 1890. Bronze Medal, Hamburg, 1898.

SURPLUS STOCK CHEAP.

GERANIUMS, single and double mixed, bushy and nice	Per 100 \$2.50
IREX and other BEGONIAS, at 50 cts. per doz.	4.00
NICE FUCHSIAS, mixed, bushy, all colors	5.00
OLEICOMA Hederaea Var., nice plants for vases	5.00

PETER J. SCHUUR, Kalamazoo, Mich.



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If any of our friends have not received a copy of our Catalogue of 1891,
should write for one at once.

Please **ORDER ON RECEIPT** of our Catalogue.

SEGERS BROTHERS,
WHOLESALE BULB GROWERS,
LISSE, Haarlem, HOLLAND.

SPECIAL LOW PRICES

ON
Lilium Harrisii, Longiflorum, Candidum, Roman Hyacinths, Paper White Narcissus, and all other kinds.

DUTCH HYACINTHS,
TULIPS, CROCUS, SPIRÆA, LILY of the VALLEY, AZALEA INDICA, ROSES, ETC., ETC.

Wholesale price list on application to
HULSEBOSCH BROS.,
P. O. Box 3118. NEW YORK CITY.

The only Dutch Bulb Growers of whose firm there resides a member in New York, to conduct the business. So that we can be reached always.



BULBS. BULBS. BULBS.
CHINESE NARCISSUS.

Order Now if you wish to secure
BEST GOODS at Lowest Rates.
AURATUM, LONGIFLORUM, RUBRUM, KRAMERI,
ALBUM, ETC. CALIFORNIA BULBS.

We guarantee you best stock at the most reasonable rates if ordered now.

Australian Palm and California Flower Seeds.
Send for our Newest Trade Price List.

H. H. BERGER & CO.,
P. O. Box 2232, SAN FRANCISCO, CAL.

J. A. De Veer,
154 East 34th St., NEW YORK.

A full line of Summer Flowering Bulbs,
Seeds, Plants and Florists' Supplies
furnished at lowest market prices.
CATALOGUE FREE TO APPLICANTS.

FLOWER SEED.
CHOICEST STRAINS FOR FLORISTS.

1891 trade list now ready, and
mailed free on application.

AUGUST RÖLKER & SONS,
136 West 34th Street,
NEW YORK, STATION E.

R. H. JAMES,
ST. GEORGES, BERMUDEA.

Grower of Bermuda Bulbs, has ready for delivery, or at any season of year, Canna Ehemanni and Gladiolus roots, Freesia refracta alba bulbs, May delivery. Low rates.
Write for Price List.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.



CHOICE AMERICAN GROWN FREESIA BULBS, READY IN JUNE.

We have had grown for us 100,000 Choice Bulbs of **FREESIA REFRACTA ALBA**, which we offer on contract orders booked now, until stock is exhausted, at the following prices:

FIRST SIZE, SELECTED, much larger than French grown bulbs	Per 100	Per 1000
PURE WHITE SELECTED, EXTRA, very fine bulbs	\$1.00	\$ 8.00
Special rates on application for large orders.	1.25	10.00

FLORISTS USING LILY OF THE VALLEY, BERLIN PIPES, ROMAN HYACINTHS, NARCISSUS, DUTCH HYACINTHS, TULIPS, Etc. will do well to send lists for our special offers. The quality of our Bulbs is unexcelled.

Z. DE FOREST ELY & CO.,
WHOLESALE IMPORTERS OF BULBS,
1301 and 1303 Market Street, PHILADELPHIA, PA.

Mention American Florist.

R. VAN DER SCHOOT & SON,
HILLEGOM, - HOLLAND,
Largest Growers of
HYACINTHS, TULIPS, NARCISSUS,
SPIRÆA, LILIES OF THE VALLEY, ETC.
HEADQUARTERS FOR FORCING BULBS.

Wholesale Importers should write us for prices.
OUR NEW TRADE LIST NOW READY.

HOLLAND FORCING BULBS

And Flower Roots of all kinds. **FIRST CLASS Goods.**

— SEND FOR OUR PRICE LIST. —

ORDER
EARLY.

C. H. C. MACHEN & SONS,
WHOLESALE BULB GROWERS,

WHOLESALE
ONLY.

WARMOND, (NEAR HAARLEM), HOLLAND.

**BULBS. IMPORT PRICES
READY.**

Our Agent is now in Europe, and we can promise **BOTTOM PRICES** for strictly First Class stock.

J. C. VAUGHAN, P. O. Box 688, CHICAGO.

The Flower of Luna.

The Yankton, South Dakota, *Herald* is responsible for the following remarkable account of a very remarkable plant. The ipomoeas must now take back seats as "moon flowers." It is said to think that the existence of this "Fleur de Lune" has often been doubted:

Mr. Arnold Brinkworth, who owns, perhaps, the finest private botanical collection in the country, and whose greenhouses near Mount Sterling, Ky., are filled with the rarest and most delicate plants of all nations, is exhibiting with much pride a specimen of the Fleur de Lune, the existence of which has often been doubted, but which was sent Mr. Brinkworth a few months ago by a friend residing near Obydos, Brazil.

It was obtained for him from an Indian, who found it growing in a swamp in the depths of the Amazonian forests, and is the only specimen which has ever reached this country alive. Those who have been favored by a glimpse of the curiosity say it is a delicate, tenacious vine, covered with small, glossy leaves of a bright and very tender green, climbing to a height of four or five feet, bearing here and there a milk white blossom of a disk-like shape.

When the moon is at its first quarter a distinct shadow or stain of a deep yellow, which seems rather in than out of the flower and corresponding to the shape of the moon, makes its appearance on this disk and grows as the planet does, until, when at its full size the yellow stain covers the entire flower. As the moon begins to wane again this retreats in the same ratio and finally disappears altogether, to return once more as the new moon is seen to come back.

When the planet sets the flower closes and does not unfold until the moon rises the following night. It pursues this course month after month whether placed in the open air or kept in a hot-house, though under the latter circumstance the yellow tint is much paler and more undecided, while the white surface takes on a dingy, unhealthy tinge. The plant subsists almost entirely on air, its roots being barely covered with a little moist gravel.

THE NEW YORK *Herald* of April 19 published quite a lengthy and very well illustrated article on the culture of palms in America. The writer speaks of palm culture as "coeval with the growth of a higher civilization, the broadening of a spirit of refinement, the emergence, as it were, from the chrysalis of rugged simplicity peculiar to this land of ours." This is very pretty language, and had it been applied to ornamental horticulture instead of to small division he would be forgiven. But the increasing call for palms is certainly indicative of an advance in taste that is pleasing to note, and this branch of the trade is assuming larger proportions every year.

THE Florists' Club of Philadelphia has one of the finest bowling alleys in the country. It is open all day in care of an attendant, and here any of the florists of America, when in Philadelphia, can pass a few pleasant hours in the popular exercise of bowling. The club has now 150 members in good standing. The club was organized October 5, 1885, and incorporated December 29, 1888.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

ROSE PLANTS

by the thousands. Clean, strong and healthy. Ready for prompt delivery.

Trade List upon application.

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Price, \$2.00.

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ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices
Now Ready.

3 CENT ROSES.

2000 La France, 3000 Meteor, 2000 M. Niel, 2000 Papa Gontier, 5000 Bon Silene, Devoniensis, Duchess of Edinburgh, Mme Swaller, Niphetos, Safrano, Sombreuil.

10 000 H. P. and MOSS at 4 CENTS. OUR SELECTION.

2-inch pots in open frames, well hardened and in fine shape for planting in open ground: Gen. Jacqu., La Reine, Magna Charta, Mrs. Jno. Laing, Chas. Lefebvre, Aug. Mie, Giant des Battles, Jules Margottin, Queen of Queens, Mme. Plantier.

MOSS—Alice Leroy, A. Purpurea, De Luxembourg, Henry Martin, Gloire of Mosses.

—We can save you money: supply good stock, and fill your orders promptly.

LIST MAILED ON APPLICATION.

WILSON BROTHERS, SPRINGFIELD, OHIO.

ROSES.

We offer for sale this season, 30,000 FIRST QUALITY FORCING ROSES grown from two-eyed cuttings in 3 and 4-inch pots, ready for immediate planting.

MME HOSTE, LA FRANCE, SOUV. DE WOOTTON, 3 inch pots, \$9.00 per 100; 4 inch pots, \$12.00 per 100.

PERLE DES JARDINS, SUNSET,

NIPHETOS, SAFRANO,

BON SILENE, PAPA GONTIER,

3 inch pots, \$7.00; 4 inch pots, \$10.00 per 100.

—Send for our Rose Circular. We wish every florist needing Roses to read it.

J. L. DILLON, Bloomsburg, Pa.

ROSES OF FLORISTS STOCK.

All leading varieties of Teas, Noisettes, etc., 2-inch, \$4.00 per 100.

H. P.'s, purchaser's choice, 2-in. \$6 per 100.

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Full assortment of miscellaneous, bedding and other stocks not mentioned below.

Aloysisa citriodora, Anthemis coronaria,

Abutilons in variety, Chrysanthemums,

good varieties, Hydrangea Thomas Hogg,

Hortensis, Panicalata grandiflora; Holly-

hocks, Pilea, Salvia splendens, and Violet

Marie Louise. All at \$4 per 100.

Verbenas, Vinca, Lobelia, Heliotrope, Coleus

and Geraniums, ass't. at \$3 per 100.

Latest Novelties in Geraniums, 20 cts. each;

\$2 per dozen.

Carnations, older varieties, \$3 to \$5 per 100.

Pelargoniums, \$6 per 100.

Fine assortment of Fuchsias, 2-in. \$3, 3-in.

\$6, 4-in. \$10 per 100.

Dracena terminalis, 4-in. \$3, 5-in. \$4 per doz.

Red Branched Hydrangea, 25 cts. each.

GEO. W. MILLER,

1748 N. Halsted St., CHICAGO.

IMPORTED H. P. ROSES,

Worked low on the Manetta Stock, offer the best results to the florist. Blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

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SOLD

BY

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ROSES.

We still have ready for immediate shipment, in excellent condition, a fine assortment and true name:

50,000 ROSES in 2-inch pots, \$35.00 per 1000, our selection; \$40.00 per 1000, your selection.

Send your lists to be priced for everything in the FLORISTS' line. Satisfaction guaranteed. Catalogues upon application.

Address **NANZ & NEUNER,**

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A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS,**

CARNATIONS and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.

ROSES.

All the best varieties for forcing, and also for bedding out, in 2 and 2½-inch pots, \$4.50 per 100; 4-in. per 100. Own selection, \$35.00 per 1000. Roses in 3, 4 and 5-inch pots at lowest rates. Also greenhouse and bedding plants.

—Price list free on application.

Address **A. LAUER,**

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J. G. VAUGHAN, CHICAGO. CLOSE 'EM OUT.

ROSES, WABAN, MME. PIERRE
GUILLOT, WHITE LA FRANCE
etc, 2 1-2 inch, ready.

Gen'l assortment **FORCING ROSES**,
3 1-2 Inch, July 1, at \$10 per 100,
very fine.

CYCAS STEMS, 6 lbs. and larger.

TUBEROSES, PEARL, medium, all
flowering, \$4.00 per 1000

" TALL, No. 1, per 100, \$1.50.

DAHLIA PLANTS, splendid stock.

CHRYSAETHUMS, complete
collection.

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Per 100 Per 1000

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Musa Ensete, 1.75

Cocos Weddelliana, 2.75

Brahea Filamentosa, .25 1.00

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IN BUD AND BLOOM.

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Hybrid Perpetuals, in bud and
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Peverfew, Little Gem, 3 in. 75 5.00

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Best pink and white single Bouvar-
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Absolutely free from disease, from 2 1/2 inch pots,
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AMPELOPSIS VEITCHII, 2 1/2 in. pots, \$4.00 per 100.

CYCLAMEN GIGANTEUM, Williams' finest strain,
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Address **J. G. Burrow,**

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LAMBORN AND

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Rooted Cuttings and Plants now ready.

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PANSIES.

PANSIES THAT ARE UP. No need to worry over getting the seed to come up, it is
up and ready to plant when I send them.

It is not only the plants that are up, the strain is up also; up to, and a goodly number
of my customers say, above any strain in the market. The price is down, considering the
quality of the strain, seed as good would cost you about as much per 1000 plants. My
price is \$5.00 per 1000, or in lots of 2,500 and over, \$4.50 per 1000.

SEND FOR LIST AND SHORT PAPER ON CULTURE.

PLANTS READY AUGUST 20th TO DECEMBER 1st.

SMILAX.

Plants ready July 1st and 1st later. These will be nice and stocky, and ready to go right
ahead. There is some 40,000 here; let me have a chance to fill your order.

Send to cents for samples and get my prices before ordering elsewhere.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

* SPECIMEN CENTER PLANTS. *

PANDANUS UTILIS FOR VASES,

3 to 4 feet, strong, \$2.50 to \$5.00 each.

LATANIAS AND PHENIX.

DRACAENA FRAGRANS, Canes 50 cts. per yard, by Mail or Express.

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Rose Hill Nurseries.

NEW ROCHELLE, NEW YORK.

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COLEUS

CUTTINGS.

Ten strong Cuttings each of ten Bedding
varieties, by mail, One Dollar.

Twenty fine Bedding and Fancy sorts,
five of each, by mail, One Dollar.

Samples of the 20 sorts mailed for 25 cents.

Stock Exhausted, except for Small Orders as above.

ALEX. McBRIDE, ALPLAUS, NEW YORK.

Mention American Florist.

Chrysanthemums.

Catalogue with description of my two new
sets now ready. Sent on application.

The following varieties are offered at \$1.00 per 100
for cash:

KIOTO, L. B. BIRD, H. CANNELL, GOLD.

PURITAN, GLORIOSUM, CULLINGFORDII,

GRANDIFLORUM, M. E. NICHOLS, L. CANNING.

E. G. Hill, \$10.00 per 100

W. H. Lincoln, 6.00 per 100

Avalanche, 8.00 per 100

Louis Boehmer, 4.00 per 100

H. E. Widenor, 1.50 per doz.

JOHN THORPE

PEARL RIVER, NEW YORK.

Mention American Florist.

CHRYSAETHUM

LOUIS BOEHMER.

I have a large and fine stock of the above.

Free by mail at \$2.00 per dozen.

CHAS. A. REESER, Springfield, O.

Mention American Florist.

Send for the List of

H. Yoshuke's New Chrysanthemums

and of his valuable collection, which contains
almost all the largest and best Chrysanthe-
mums existing in the world.

H. YOSHIKUE,

The Japanese Chrysanthemum Raiser,
1064 22nd St. cor. Linden St., OAKLAND, CAL.

Coleus

FOR

SEASIDE FLORISTS.

VERSCHAFFELTII, FIREBRAND, J. GOODE,

KIRKPATRICK, HERO, GLORY OF AUTUMN,

YEDDO, CHICAGO BEDDER, AND

GOLDEN BEDDER.

Five plants from pots, \$1.50 per 100;

\$12.50 per 1000. Cash with Order.

Orders filled within one hour after receipt.

S. B. FIELD,

ROSELLE, NEW JERSEY.

Chrysanthemums.

20,000 nice young plants growing in flats, in 10
fine Novel, Modern and Standard kinds, all the col-
ors earliest and latest, such as October Beauty, Le
Neige, Gloriosum, Mabel Longfellow, Editor, White
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tiana, Briar, Mrs. Bessie Barre, Horace, Reward, Mrs.
S. Clinton, Twilight Ivory, Mrs. A. C. Barpee, Mrs. L.
B. Bird, Snowball, Kido, Gladiator, Hans, Fanta-
sia, Purpurea, Leopard, Gold, Mrs. Irving Clark, T.
C. Price, Snow, Bottomly, Elizabeth, W. H. Lincoln,
Ivory, Minnie Miller, L. Canning, Snow Storm, Mar-
vel, Wm. Slinger, J. C. Price, Paragon, Queen Mar-
keret, and many other indispensable kinds, all
carefully labelled and packed, for \$2.50 per 100; \$15.00
per 1000, mixed without names, \$2.00 per 100.

GOLDEN BEAUTY, the best and most profit-
able of all the kinds in culture and last year for pot
plants or cutting, "you can get nothing better than
that" 8 plants flat with every 5 order, 12 with
every 10 order, or separately for \$1 per doz., 8 per 100.

THE SNOWFLAKE DAISY, the coming
boom of the cut flower trade, \$1 per doz., 8 per 100,
to close out, 10,000 China Pinks, finest strains, our
own seed flats \$2 per 100, ready for immediate ship-
ment until stock is exhausted.

J. C. GIBSON, WOODBURY, N. J.

Two Nursery Firms Swindled.

Martin's Ferry, May 3.—Leon Einstein, a Jew and formerly a clerk in a clothing store here, has swindled two nursery firms in great style. He sold nursery stock on commission, canvassing the entire neighborhood and was quite successful. He sent these orders to R. B. Niffin & Co., of Paterson, N. J., and received his commission. He then called on each of the persons to whom he had sold, told them he had lost the first order, and asked them to fill out a duplicate. This was done in nearly every case and the second order was sent to Ed. W. Reid, Bridgeport, who also paid Einstein his commission on each sale. Reid delivered the trees, rose bushes, etc. Later on the same quantity arrived from Niffin. It was shipped to Webber & Co., the livermen, with the understanding that they deliver it at a stated per cent. A part of the stock was delivered, and it was mostly refused for the reason the orders had been filled, and the stock is left in the hands of Webber & Co. Niffin & Co. want the swindler's address.—*Cleveland O. Plaindealer.*

"Crape Pulling."

A reporter for the New York Press has been out interviewing florists to ascertain the meaning of this term. Here is a portion of an interview with one florist:

"Each morning these 'crape pullers' pick up the papers and go through the death lists in a very careful manner. They select those people whom they know are in the middle walks of life. One of their men is then sent to the house of mourning and he, upon entering the room where the bereaved relatives are seated, inquires in his most sorrow stricken tones what was the cause of death. Naturally, some one will ask whether he knew the deceased. And the reply will generally be that they have had many and many a good time together. Such a jolly good fellow was Jack. And they were almost brothers. He used to come over to the store every day for his bunch of violets or a pink. Before the relatives are aware of the fact the artful fellow has a ten or twenty dollar order, which he fills with a design made almost entirely of dried flowers."

If such things as above described do exist, for the sake of common decency and the fair name of the trade, the ghouls should be exposed, and we would like to be one of a vigilance committee to treat each one to a coat of tar and feathers.

CHEAP LIST.

	Per 100
Trailing Vincas, Major and Harrisonii,	
2-inch.....	\$2 50
Cannas, 4 line varieties, nice bulbs.....	2 50
Coleus, mixed varieties.....	2 00
Smilax, nice young plants.....	2 00
Rose C. Mermel, 2½-inch.....	3 50
Heliotropes Garfield, 2½-inch.....	3 00
Primula Obconica, 2-inch.....	3 00

Address **N. S. GRIFFITH,**
JACKSON CO. INDEPENDENCE, MO.

(Independence is well located for shipping, being 8 miles east of Kansas City.)
Mention American Florist.

F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.

Specialties in Lilies of the Valley, Azaleas, Camellias in sorts, best varieties in Palma and D. Zarf. Roses.

Wholesale Catalogue on application.

ORDER NOW AZALEA INDICA.

Fine budded plants, best sorts at

Lowest Prices.

C. H. JOOSTEN, 3 Coenties Slip, NEW YORK,
Importer of **BULBS** and **PLANTS.**

HARDY WATER LILIES—Pink and Blue.

AT POPULAR PRICES. SUITABLE FOR FLORISTS.

NYPHÆA ROSEA, pink, \$9.00 per dozen.

NYPHÆA ZANZIBARENSIS, \$6.00 per dozen.

NYPHÆA CÆRULEA, \$6.00 per dozen.

PONTERDIA CRASSIPES MAJOR,

(The Water Hyacinth), \$6.00 per dozen.

Strong blooming plants.

SIEBRECHT & WADLEY, - - NEW ROCHELLE, N. Y.
100,000 YOUNG PALMS FOR GROWING ON.

Fine Plants for Forcing

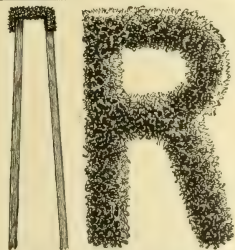
SILVER MEDAL awarded to

REA BROTHERS, NORWOOD, MASS.,

By the Massachusetts Hort. Society May 9th, 1891, for

SPIRÆA JAPONICA GRANDIFLORA (NEW)
AND SPIRÆA ASTILBOIDES.

Orders taken in strict rotation. Sample Flowers on application. Correspondence Solicited.



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Manufacture THE BEST LETTERS IN THE MARKET.
sizes 1½-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.

WHEAT DESIGNS OF EVERY DESCRIPTION.
N. F. MCCARTHY, Mgr. Address
JOHN B. OLDEN, Asst. Mgr. 113 Green St., BOSTON.
Mention American Florist.

MRS. J. S. R. THOMSON, Spartanburg, S. C.

OFFERS TO THE TRADE, Per 1000

Orchid Epidendrum venosum..... \$40 00

Tillandsia bracteata..... 40 00

" striculate..... 40 00

" bulbosa..... 40 00

Crimum Americana..... per 100 \$15 00

" Anabile..... 30 00

Paneratium coronarium..... 25 00

Over 200 other named plants, Cacti, etc.

COLEUS Verschaffeltii, Golden Bedder (gold-
en Verschaffeltii, Sunset, from 2½-in.
pots, \$30 per 1000; \$2.50 per 100. From 3½-in. pots, \$25
per 1000; \$3 per 100. Large stock plants, \$5 per 1000;
\$4 per 100. All orders should be accompanied by
money, otherwise shipped C. O. D.

JOHN RECK, Bridgeport, Conn.

THE FAMOUS Azalea Vervæniana.

Having made a contract with Mr. B. Maenhout van Melle, of Ghent, Belgium, to handle this beautiful variety, we can offer them by the thousands at very reasonable rates.

HULSEBOSCH BROTHERS,
P. O. Box 3118, NEW YORK CITY.

In June or in December,
In March or in September,

LONG'S FLORAL PHOTOGRAPHS

are in season and will serve you. They are
liable to be most useful at any time.
Send for circular list to

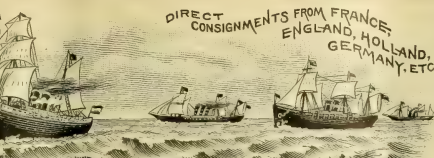
DAN'L B. LONG, Florist,
BUFFALO, N. Y.

FLORAL DESIGNS.

The help for Cut Flower workers.
162 pages, colored plates. Edition
nearly exhausted; speak quick.
Address (with \$3.50 for the book)

J. HORACE McFARLAND,
Box 555, HARRISBURG, PA.

GARDINER'S BULBS



DIRECT
CONSIGNMENTS FROM FRANCE,
ENGLAND, HOLLAND,
GERMANY, ETC.

We can give you the inside track on forcing bulbs, both in quality and price. Write us at once. Special Wholesale Price List now ready. Don't fool with poor stock. Get your supplies from us.

J. GARDINER & CO.
BULB GROWERS AND IMPORTERS,
PHILADELPHIA, PA.

PRACTICAL TESTS.

UNIVERSITY OF CALIFORNIA.

AGRICULTURAL EXPERIMENT STATION,
BERKELEY, AUGUST 22, 1889.

MESSES. MORRIS, LITTLE & SON, BROOKLYN:

Gentlemen—In regard to the sample of Insecticide submitted by you for trial, I beg leave to state that the preparation has been used on the University grounds with the following results: First, four ounces of the insecticide were added to one gallon of water and applied to woolly aphids on apple trees with a spray pump. The insects were killed wherever touched by the wash, the result shows plainly that the material is effective wherever contact with the body of the insect can be secured. Second, one-half ounce of the insecticide was added to one gallon of water and application made by spray to the greenfly on rose bushes; the insects were killed on all sprigs reached by the spray. The amount of material submitted for experiment was too small to admit of large scale experiments, which would be desirable.

Very respectfully,

(Signed) E. J. WICKSON,
Assistant Superintendent Agricultural Grounds.

FISHING, L. I., June 25, 1889.

Dear Sirs—I have found your Little's "Antisept" very efficacious in destroying the insects injurious to plants, without affecting the plants in any way. I regard it as the best insecticide that I have used, and I would not be without it. It is easily applied, very effective, and can be used with safety.

Yours truly, JOHN HENDERSON CO.

409 FIFTH AVE., NEW YORK, JAN. 12, 1891.

Dear Sirs—We are most willing to testify to the good quality of "Little's Antisept." It is the best and most effective insecticide we have ever used. You can send us another 10 gallons. Yours truly,

SIBBERT & WADLEY.

QUEENS, N. Y., Jan. 8, 1891.

Dear Sirs—I have been using Little's "Antisept" since last September and have no hesitation in recommending it as by far the best insecticide I ever used. While it is sure death to all insects, there is no trace of the compound left on the foliage of plants. Please send us 5 gallons more at your earliest convenience. Respectfully,

JAMES MACKAY,
Foreman V. H. HALLOCK & SON.

PHILADELPHIA, PA., Dec. 3, 1890.

Dear Sirs—I have been using your "Antisept" for several months for water and soil, and find it valuable for that purpose.

Respectfully, JOHN BURTON.

1287 BROADWAY, BROOKLYN, N. Y.

Dear Sirs—I have used Little's Antisept for Manly Box and must say that it is the only remedy that I found to do the work effectively, having used various other insecticides before without result.

Respectfully yours, W. C. KRICK.

REDUCTION

SINCE FEB. 1st,

33 1-3 per cent. Discount off List

on all orders for full thousands of our

Neponset Flower Pots,
OF WATERPROOF PAPER.

Address for all information,

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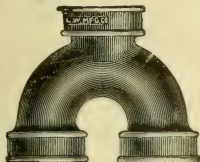
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Vol. VI.

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No. 158.

THE AMERICAN FLORIST

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CHICAGO, June 9.—Today a large body of prominent horticulturists representing the states of New York, Ohio, Iowa, Wisconsin, Michigan, Massachusetts, Pennsylvania and Illinois appeared before the committee of the World's Fair Directory and made a vigorous protest against the appointment of Walter S. Maxwell as Chief of the horticultural department. Mr. W. C. Barry, of Ellwanger & Barry, Rochester, N. Y., made the leading address.

YOU WILL benefit the FLORIST by mentioning it every time you write one of our advertisers.

The Nurserymen's Convention.

The American Association of Nurserymen convened in annual session at Minneapolis on the 3rd inst. The meeting was held in the Masonic Temple, only a few steps from the West Hotel, which was headquarters. Members who had not before visited the twin cities of the Northwest, expressed themselves as quite overcome by the signs of push and progress on every hand. The West Hotel is a stately pile fitted with every modern convenience and elegantly decorated. In fact it equals the best hotels in the largest cities. The Masonic Temple, where the meetings were held is also a notably handsome and well appointed building, and these were only samples of what was to be seen on every street in the business centre.

President S. M. Emery, of Lake City, Minn., called the meeting to order for the morning session of the first day, promptly on time, about 250 being in attendance. He then introduced Hon. P. B. Winston, mayor of Minneapolis, who in a few words of welcome extended the hospitality of the city to the association. He recognized the importance of the work of the association and hoped that the session would prove so pleasant and profitable that it would again see fit to visit the Northwest on the occasion of a future annual session.

President Wyman Elliott, of the Minnesota State Horticultural Society made a few supplementary welcoming remarks. Governor Merriam was unable to be present.

Present Emery responded on behalf of the association. He laughingly said that while it took men of considerable calibre to be mayors and governors, the requirements were insignificant compared with those which must be possessed by a successful nurseryman. After thanking the previous speakers for their warm words of welcome he proceeded to read the president's annual address which was both practical and humorous by turns.

After mentioning his first connection with the association, at St. Louis, in 1883, and the increase in its membership from 100 at that time to 400 in 1891, he emphasized the value of organization in any attempt to secure recognition from the authorities. He felt that while the association had accomplished much, still more was to be done. He believed that there were some who wrongly considered the conventions as times only for barter and sale. He discountenanced this view and urged that the time be spent rather in ascertaining how to produce first class goods and the best manner of disposing of them. He called attention to the magnitude of the work for the nurserymen to do. Six millions of homes to beautify, to fructify, and to render tenable as earthly abodes. To shield from the burning rays of the sun, to shelter from

the winter's blasts; to supply this vast congregation with fruits, the best of their kind and in due season. Aside from heat, drought and insect pests to be guarded against, the nurseryman must cultivate that rare plant, human confidence, before his labors can be rewarded. "Thornless gooseberries," "blue roses," "seedless apples," have all given the confiding an opportunity to cut their eye teeth. He said:

"We have to congratulate ourselves upon the improved tone of the nursery business. Nursery stock is worth 25 to 40 per cent. more than a year ago. But this is no argument in favor of indiscriminate planting of cheap varieties. The habit of speculation is unsafe and operates against the grower. In my experience I have never known extended and complete financial loss to befall that nurseryman who grew and sold his own stock."

"Among improvements to be desired is the official adoption of a general telegraphic code, by which orders may be abbreviated."

"The committee on freight and express might consider a plan for the introduction of the C. O. D. method of selling plants." The official incorporation of this association ought to be accomplished and the constitution and by-laws revised by a committee to report at this year's meeting. Notice should be taken of the matter of charges for insurance, and a committee should be appointed to confer with the boards of underwriters to secure reduced rates and a standard style of cellar and parking. It might be well to consider the organization of a mutual insurance company among the nurserymen."

He concluded by calling attention to the near approach of the time set for the opening of the World's Fair, and the apparent intention of California to control the horticultural department regardless of the means employed. He alluded to the classification adopted for the department as pathetic in its ludicrousness and declared a vigorous protest against such folly, in order.

The report of secretary Chas. A. Green, showed receipts during the year of \$1,753.71, and disbursements of \$1,273.79. Including the previous balance on hand there is now about \$1,000 in the treasury.

The remainder of the morning session was devoted to a discussion on peach growing in which a number participated, a gentleman from Georgia telling some pretty tall stories about peach growing in his state. A special committee was appointed to consider the matters touched upon in the president's address.

At the afternoon session Mr. J. H. Hale, South Glastonbury, Conn., superintendent of the horticultural department of the eleventh census, talked upon the remarkable growth of the nursery industry

ness as shown by the reports he had received, but which were not yet fully compiled and ready for publication. He spoke of the difficulty encountered in securing accurate information and of obtaining responses to the queries made, and raised a laugh by announcing that among the culprits who had not yet responded were the president and secretary of this association.

Then followed an essay on "One good way to sell nursery stock," by G. L. Grant, Chicago, which is printed elsewhere in this issue, and a talk on "Horticulture in Minnesota," by Prof. S. T. Green, of the State University. He touched upon the availability of the Russian apples for the Northwest, and a very vigorous discussion of the subject ensued. The preponderance of opinion was to the effect that the Duchess of Oldenburg and the Hiberna were the only ones that gave indications of being useful and it was considered the part of wisdom to try the Russians sparingly.

The session opened Thursday morning with an essay by C. S. Harrison, Franklin, Neb., upon Rocky Mountain evergreens. He urged the use of the pines of the Rockies as the only evergreens that would stand the trying climatic conditions of the western plains and make possible a solution of the problem of clothing them with forests, resulting in conditions favorable to the growth of fruit trees.

Mr. W. C. Barry, Rochester, N. Y., gave a short talk upon the work of the American Pomological Society, and urged the young men present to join and assist the society in its work. He announced that the next session of the society would be held in Washington, Sept. 22 to 25 of the present year.

"The northwest as a field for nursery extension work" was the subject of a paper by Chas. A. Keffler, Brookings, S. D. He said:

"I believe the trade will find a profitable field in the prairie regions of the northwest, for means of modifying existing unfavorable climatic conditions must be devised. It is futile to hope for an extensive demand for fruit trees on the prairie, until universal grove planting has been practiced. The winds must be conquered before orchard fruits can be grown in but the smallest way on the prairies. And as the forest tree, owing to the more sturdy organization nature has given it, can thrive in untoward conditions more successfully than the fruit trees, in which ability to withstand adverse climatic knocks has been greatly reduced by high cultivation, the wind break must be the precursor of the orchard. Western farmers recognize this condition of affairs and groveplanting was made the pioneer work in horticulture. The western farmer will grow his own fruit as soon as he has provided a sheltered location for an orchard. Let him conquer the dry south winds, prolific cause of disease in fruit trees, and he will be your best patron."

J. S. Harris, of La Crescent, Minn., spoke upon "the outlook of pomology in the northwest." He related the many unsuccessful attempts to grow there the varieties of fruit trees so useful in the east, and as the final result of these failures the attempt to raise at home seedlings suited to the peculiar climatic conditions of this section and the encouraging progress that had been made in this direction.

The secretary of the Minnesota State Forestry Association introduced a resolution urging upon President Harrison the

exercise of certain of his prerogatives looking to the preservation from fires and vandalism of the remaining forests of Minnesota. It was unanimously adopted.

No session was held during the afternoon, the convention in a body having accepted an invitation from the Mayor, Common Council and Park Commissioners of Minneapolis to take a drive through the Park system that encompasses the city. This proved a most enjoyable and instructive feature of the meeting. The country about Minneapolis is naturally picturesque, and under the direction of Mr. H. W. S. Cleveland, the veteran landscape architect, these wonderful natural advantages have been developed to a high degree. The visitors from the eastern cities were amazed to behold so finished a creation in so young a city as Minneapolis.

The evening was devoted to the enjoyment of an entertainment provided by the Minneapolis hosts, under the direction of Mr. Wyman Elliott, President of the State Horticultural Society.

Mr. Albaugh's much anticipated "pome" had been reserved for this occasion, and it called forth rounds of applause. He related in rhyme the trials and troubles of the nurserymen during the packing season, and the many trade hits and comicalities were much enjoyed.

Mr. H. W. S. Cleveland gave a short description of the work that had been done in the construction of the park system of the city and plans for future operations in the same direction, making the same plain by the use of a large map, and pointing out on it the route travelled by the convention on the afternoon ride. He was received with long continued applause, which was resumed at the conclusion of his remarks.

Mr. J. Jenkins, of Winona, O., presented a bouquet of good old humorous stories about the trials of the tree agent. His "piece de resistance" was the story about the agent who was frozen to death in a blizzard, and when the body was found after the spring thaw the check was still unaffected.

Mr. Geo. S. Josselyn, of Fredonia, N. Y., read a very humorous paper and suggested that the association go into the show business. He thought that several of the members could make their reputations as doorknopers if properly harnessed to a bell punch.

Mr. C. L. Watrous, of Iowa, spoke upon the pioneer nurseryman. In the course of his remarks he related what had been done in his section toward the raising of varieties suited to the locality, by fertilizing flowers of the native crab with pollen from the finer apples. He minutely described the plan followed and urged others to undertake this method of securing varieties of their own suited to their own climatic conditions.

The essays and speeches were interspersed with songs by a very excellent quartette, which was encored after each number. It was a thoroughly enjoyable evening and was a very excellent combination of the entertaining and instructive.

At Friday's session papers were read on "Growing evergreens for protection on the western prairies," by E. H. Ricker, Elgin, Ill.; "Transplanting and pruning evergreens," by Chas. F. Gardner, Osage, Iowa; "Propagation of the apple for western and northern orchards," by J. V. Cotta, Nursery, Ill.; "What the government is doing for pomology," was the subject of an essay by Hon. H. E. Vandeman, Washington, which in the absence of the essayist was read to the convention by a delegate.

Officers for the ensuing year were elected

as follows: President, J. Van Lindley, Pomona, N. C.; Vice-President, W. J. Peters, Troy, O.; Secretary, Chas. A. Green, Rochester, N. Y.; Treasurer, A. R. Whitney, Franklin Grove, Ill.; Executive Committee, W. C. Barry, W. J. Heikes, G. J. Carpenter.

Atlanta, Ga., was selected as the place for the next annual session.

The committee on the president's address reported as follows:

Your committee, having carefully considered the recommendations contained in the very able address submitted by the president, beg leave to report as follows:

Resolved, That a committee of three be appointed by the chair to consider the recommendations relative to insurance of nursery stock in the field and in cellar and report their findings at our next annual meeting. We would also recommend the appointment of a like committee to consider and report at the same meeting a telegraphic code to be used by the association if found advisable.

Regarding the very important subject of the World's Columbian Exposition and the recommendations for protest thereon, we beg leave to submit the following:

Whereas, we believe the classification adopted for the World's Columbian Exposition relative to horticultural subjects is faulty and unjust to the horticulturists of the country and if allowed to stand will tend to hinder the success of that department, therefore

Resolved, That we, the American Nurserymen's Association, representing every state in the union, do most earnestly protest against such classification and ask that the same be changed to conform with the acknowledged, reasonable classification accepted by the horticulturists of the world without fixing the various classes under which exhibits might be made. We suggest the following grouping as satisfactory to the nurserymen, fruit growers and florists of this association:

Department B. Horticulture.

Group I. Pomology, including all fruits on exhibition.

Group 2. Floriculture, including flowers, flowering plants, shrubs, cut flowers, etc.

Group 3. Arboriculture, nurseries and their products.

Group 4. Kitchen and market gardening and their products.

Group V. Horticulture, appliances, methods and tools.

Group VI. Seeds used by nurserymen, florists and gardeners.

Resolved, That we most earnestly protest against the appointment of Walter S. Maxwell, of California, as chief of the division of horticulture of the World's Columbian Exposition. We believe as we do that there should be a man at the head of the great work who by taste, knowledge, experience and sympathy with every horticultural interest of this great country.

The report was concurred in and a committee of four was appointed to present the matter to the exposition directors. This committee is: W. C. Barry, of Rochester, N. Y.; N. H. Albaugh, of Ohio; C. L. Watrous, of Iowa, and Charles W. Garfield, of Michigan.

NOTES.

The foreign nursery interests were represented by Messrs. Fell and Palmer, of England.

The query "what shall we do with the surplus?" was answered: "Send it to Washington."

The Nurserymen's Protective Association held several sessions, but of course with closed doors.

Among the delegates from the east was Mr. H. B. Bentley, of Old City, Pa., secretary of the Florists' Protective Association.

The trade exhibition was not as large as usual. The principal feature was a collection of evergreen seedlings by D. Hill, Dundee, Ill.

In filling out the census blanks one nurseryman replied to the query "How many women do you employ, and what wages do they receive?" with "Two; no wages—wife and mother-in-law."

Some of the members of the association are in favor of forming a mutual insurance company, to insure stock against damage by hail, on a plan similar to that of the Florists' Hail Association.



VASE OF CATHERINE MERMET ROSES

Referring to the Minnesota state law regarding the sale of nursery stock in its limits by nurserymen from other states, President Emery said that at the meeting at Chicago after the passage of the law he barely escaped hanging at the hands of the other nurserymen, and he owed his escape solely to the fact that the lamp posts were not high enough to properly suspend his anatomy.

Mr. James D. Reynolds, of Riverside,

Ill., who has been endorsed by the association for the position of Chief of the Horticultural Department of the World's Fair, was present. He had with him a large plan of the exposition grounds and he gave the convention a half hour's talk, pointing out on the map the location of the horticultural building and the space that would probably be devoted to nursery products.

President Emery completely fitted one's

conception of an ideal presiding officer. Quiet, collected, never rattled, always equal to the occasion and preserving perfect order without overstraining the application of parliamentary procedure; and ready with a quiet bit of humor here and there to relieve a strained situation. There was a general feeling of regret among the members that he did not see his way to accepting a nomination for a second term.

Massachusetts Horticultural Society.

RHODODENDRON SHOW.

The annual Rhododendron Show which was held at Horticultural Hall, Boston, on Saturday, June 6, was somewhat of a surprise in the unusual extent of the exhibition and in the number of visitors who attended. To-day that the show was a great success is putting it very mildly. Such a throng of people have rarely been seen at any exhibition of flowers here, and the display was in every respect worthy of the attention it received.

The rhododendrons were of course the central point of interest. Of these there were a number of exhibits, but, as in former years, the contributions of H. H. Hunnewell and F. B. Hayes far exceeded all others in quantity. Mr. Hunnewell's collection of cut blooms consisted of over one hundred named varieties, and filled the whole front of the stage. The exhibit of F. B. Hayes filled a large table running the entire length of the hall, and was splendidly staged with large masses of blooming shrubbery for a background.

The first premium for a single truss of any tender variety was awarded to Jos. Clark for Sappho.

First prize for twelve hardy varieties was won by John L. Gardner. The varieties shown were Sherwoodianum, Alburn elegans, Everestiana, Lady Clemonet, Caracatus, Queen Delicatisima, H. W. Sargent, Lady Emily Cathcart, Mrs. John Clutton, James McIntosh, and azurcum.

Second prize went to F. B. Hayes for Generic, Stella, Caracatus, Delicatisima, Everestianum, Alburn elegans, Lady Armstrong, roscum elegans, H. H. Hunnewell, Mrs. John Clutton, Maculatum grandifolium, and Maculatum superbum.

The hardy azaleas were only fairly represented, and the tree peonies were conspicuous by their absence.

In assorted hardy flowering shrubs the display was magnificent. The principal collections came from Jackson Dawson, N. T. Kidder, F. B. Hayes, and J. S. Fay.

Herbaceous plants were also seen in grand profusion, the principal exhibitors being N. T. Kidder, J. W. Manning, and Temple & Beard.

E. H. Hitchens, Mrs. P. D. Richards, and W. E. Coburn took first, second, and third prizes respectively for wild flowers, each of them showing a large number of rare species. It was gratifying to note that all the displays of herbaceous, shrubby, and wild flowers were carefully labeled, in some cases both the botanical and common name being given.

The collections of pyrethrums showed a great advance over previous exhibits. Those staged by Temple & Beard were remarkably rich in variety and brilliancy of color. Dr. C. G. Weld, J. L. Gardner, and Mrs. E. M. Gill all showed good collections of pyrethrums.

Among the other attractions in cut flowers were fine roses from Joseph Clement, gloxinias from J. H. White, aquilegias from John L. Gardner, pansies from J. S. Fay, J. E. Coburn, and M. B. Faxon, clematis from J. H. Woodford, carnations from C. Southworth, novelties in peonies, irises, and anthuriums from Pitcher & Manda, and baskets of flowers from Mrs. A. D. Wood and Mrs. E. M. Gill.

David Allan showed a group of beautiful new varieties of *Odontoglossum vexillarium*. One of the finest is that named *Harrisianum* in honor of Mr. F. L. Harris, of Wellesley. The flower of this

variety is four inches across, of the most vivid carmine, a remarkably brilliant color. It was awarded a silver medal.

The variety named *Allanianum*, after its exhibitor, is another flower of rare beauty. The sepals and petals are of a rosy peach, with pure white tips. This plant received a first class certificate of merit.

A first class certificate of merit was also awarded to Pitcher & Manda for *Cypripedium Brownii*, a beautiful hybrid between *magniflorum* and *leucorhodium*.

A group of *encleolarias* from N. T. Kidder, William Martin, gardener, attracted much attention on account of their abundant bloom and dwarf shapely appearance.

Only one thing about the show requires criticism. It is the manner in which the public was admitted to the hall before the hours announced for opening, whereby the exhibitors were hindered in their work of staging their flowers and the judges found it impossible to examine the exhibits and make the awards with that care which is so essential to correct judging. This evil has been on the increase for some time, and measures to correct it cannot be too quickly adopted. W. J. S.

The Drawing Room Exhibits at the New York Show.

I can hardly believe Mr. Thorpe to be so inconsistent to his previous declarations when he tries to assure us in the face of glaring facts, that it gave him great pleasure to discuss the judgments passed upon these particular exhibits. In doing so Mr. Thorpe was evidently oblivious to the fact that he was in the position of a man in a glass-house where people could throw heavy stones at him.

We will allow that in the greenhouse very few would like to dicker with Mr. Thorpe, but when he passes opinions on matters relative to the retailer's branch of the trade he must expect to meet those who will dare to question his judgments.

Let me ask Mr. Thorpe, or any retailer in New York, if he and they considered any of the judges of those exhibits competent? This is where all the trouble springs from and is the most important point to consider. Who were those judges? Would any retailer in New York select them for judges? Is it not a fact that not a retailer acted on the committee of arrangements? Were not the lady judges prejudiced against and entirely opposed to what they considered extravagant and immoral decorations? I can prove to Mr. Thorpe that those judges never had any experience in such matters and were opposed to such extravagance. It is simply absurd for Mr. Thorpe or any one else to try and white-wash with botanical paint the wretchedness of such judgments.

Let us look at the rooms, which were admirably illustrated in a recent issue of the *FLORIST*. I am satisfied that anyone who knows anything of decorating can only have one opinion after looking at those illustrations. It was claimed that Stumpff had the best room. Why? The rooms are of equal dimensions, the only difference being the mantel which Stumpff would have had put in if it had not been there. That mantel was not intended for people to admire themselves in, it was simply used as an ornament. There is a space of something like three feet between the top of the mantel and the ceiling; in this space was placed a group of *Dracena terminalis*, which Mr. Thorpe says was too crowded. The azalea in the centre of the room was

used as a divan ornament; underneath it were placed a few seats. The azalea was immediately under the lights and was not out of place. There was ample space left everywhere for pictures and such bric-a-brac as usually adorns the average drawing room. There was plenty of room left for four persons to pass on all sides, notwithstanding that the room was only 20x18. There were but two colors in the flowers used, namely pink and yellow, except the pansy above, which was yellow and purple. Do not *Acania pubescens* and *Madam Cusin* roses go together in room decoration? Where were the glaring faults in contrast? Has Mr. Thorpe ever seen a Fifth avenue drawing room decorated? Surely no one would allow their drawing room to be designed and their furniture destroyed by nailing on to it such coarse stuff as common palmetto leaves (Mr. Thorpe calls them *chamærops*) which formed the greater portion of Mr. Warendorff's decoration. As shown by the illustration these leaves were actually nailed on to a mirror.

There was less room for furniture and but little walking room in Mr. Warendorff's room; then again, has anyone ever seen a mound of *Lilium Harrisii* in the centre of any fine drawing room? Or has anyone ever seen a gas fixture completely hidden by wild smilax? Suppose the gas was lit? I doubt if there is a reputable florist in New York who will agree with the judges or Mr. Thorpe in this affair. JAMES DAVIS.

The Arrangement of Flowers.

The able articles on decorations, arrangement of flowers regarding their colors, and kindred subjects appearing recently in these columns, should be very welcome reading to the florist who has not as yet learned it all, and if the average flower man was not such an each-hour-busy person, much valuable discussion should follow, such as would set us thinking to a better purpose and towards higher aims in a noble calling.

Are we not given to working towards "high art" as a standard in decorations, beyond what can practically be accomplished? We ought not in this short life to allow any useless waste of our energies. Mr. Bentley's paper abounds in well taken points. In speaking of the drawing rooms he sensibly suggests: "remember what we are here for—to decorate," and the florist's decorating, instead of a high art arrangement accomplished at leisure with materials selected at discretion, is to be a defined result that can be practically accomplished by practical work done on the moment, so to speak, with perishable materials which are often uncertain of command. Here the experience and skill of the decorator play their parts, first in getting together his materials at the needed time in proper condition, exercising ability to measure ahead the extent of prospective work, and how it can best be accomplished at the time, by the most economical means as far as possible, and have this finished work a display, showing the exercise of good taste all through, nothing inharmonious or "quarreling" to borrow Mr. Mathew's term. Is it surprising that some of the "high art," a vague article at best, be often somewhat sacrificed? Good taste combined with practical work goes the farthest.

Consistency, I believe, if followed out well, will help us much. Mr. Bentley's idea of the disposal of palms and other plants, in bold arrangements in the halls



BOWL OF MADAME DE WATTEVILLE ROSES

and large parts of a house is sensible and consistent. The adverse features of those drawing rooms at the recent New York show, to my mind, lay in the apparent transformation of a parlor into a plant conservatory, whereas a decorated parlor was called for. Too much of the floor space was intruded on by plants to the exclusion of lighter and airy decorating, suited to the surroundings. This feature was most noticeable in Warendorf's work. Inconsistency reigned supreme. As an alcove, or side room, to be looked on as scenery only, or a roaming spot, the effects would have been ideal, barring probably the high cost.

If we must use handle baskets for flowers, let them be when finished baskets pure and simple. I refer to the somewhat common style of loading up and down of basket handles with a mass of bloom, oftentimes of heavy character and so generous as almost to divide the flowers between the basket and its handle. The uninformed might easily look on it as being a base of bloom and an arch of flowers rising from it, or be puzzled to tell where the basket stops or the handle begins. A light graceful arrangement of bloom and foliage on the handle is decorative, loading it heavy,

conglomerates the whole and detracts from a graceful and consistent effect.

Ribbons employed moderately I think desirable, as their use helps to produce the required effects without detracting from the beauty of the flowers. But an excessive use of them should be guarded against.

Above all else, simplicity in arranging flowers and naturalness in using them, should always be worked for. Yeoman service can be done here in discouraging complicated arrangements. But when they are ordered, treat them simply, making up the separate parts of as few kinds of flowers as possible. The stiff covering of forms by surface measure with flowers of indifferent or poor quality and texture and encouraging intricate shapes and indiscriminate use of manufactured lettering is a poor recommendation for flowers as they should and could be used, and I believe a harm to the trade at large.

L. B. D.

Packing and Shipping Cut Flowers

Will some experienced shipper of cut flowers tell us the best way to pack and ship, giving methods employed in summer and in winter? S.

Roses in Vases and Bowls.

In this issue we present beautiful engravings of a vase of Mermets and a bowl of Wattevilles. The arrangement of the roses we consider most excellent, and worthy of careful study by all who would excel in this department of the decorator's art. The arrangement is the work of Mr. H. H. Battles.

Returns From Auction Sales.

ED. AM. FLORIST:—What is the rule at auction sales? My reason for asking is this: We sent some plants to an auction a few weeks ago, and have not yet received a statement as to how the plants sold, prices, etc. It seems to me that a detailed account of the sales should go out at the latest two days after the sale, so that the poor florist can form an idea as to how much he has realized from his consignment. P. D. Q.

WILL SOME of your numerous readers please inform me what is the "Lethorian Vapor cone"? E. D.

WILL some reader of the FLORIST give the best plan for building a refrigerator for cut flowers? S.



How shall we grow Chrysanthemums?

ED. AM. FLORIST: Your correspondent from Toronto in your issue of May 28, makes a request that I have made many times to different parties, and as yet, have never been satisfied with the replies received; and I would like to join him in making the request of some of the "big guns" to tell us little ones how to grow the chrysanthemum, to be in the swim, or bang up in style. Should it be for size of plant, size of flower, the number of flowers, or a combination of all? Can it be grown in the combination style and give satisfaction? Information on the above points from the authorities, would save any amount of worry to the small growers.

With my experience I would say that it is hardly any trick at all to grow lots of flowers on an ungainly looking large bush. All that is necessary is to get a rank growing kind, give it lots of feed and plenty of drink and room, and you will get your big plant with lots of poor flowers. But, is that the aim, or should that be the aim of florists? Would it not be in better keeping with this progressive age to grow for quality instead of quantity? Is not a neat, tidy, well trimmed and reasonable sized plant with a few good flowers preferable to the former? With your correspondent, I do not believe in doing so and so, because it was done so in some other country or a century ago, neither do I believe in going back, or keeping in the wild state for fear that we may be imitating some one else. Improvement is what we want.

The present rules or rather want of rules, for growing chrysanthemums, makes some of us feel as though we were groping in the dark, not knowing which way or how to turn, and seeking for light that we cannot find. I should vote in opposition to your correspondent, as I should be in favor of single stem from the ground, and well grown bush, and good flowers, against all unwieldy large plants or the more than useless standards. In all cases "quality before quantity." Will not some of the "big guns" tell us what to do to be saved. B.

The Casket Cross.

The cross as shown in the illustration was made for the funeral of an elderly person, and was composed of ivy leaves, a cluster of wheat lashed on by a band of purple pansies. These crosses we often make five and six feet long. They are generally placed on the casket on the way to the cemetery, and on the mound after the burial, which partly conceals the soil. This design, like all others, is capable of many combinations. This combination we particularly like for age. For a child we should use white and for a young lady we often use delicate pink in our work.

Speaking of covering the soil, it occurs to me that I have never seen in print anything about lining graves; not a pleasant subject, but possibly it will be well to

speak of it. It surely is a good idea to encourage, and I often wonder that it is not done more than it is. We shall have graves until the people get educated up to the idea of cremation. And graves are very ugly sights and leave such a lasting impression that it would be far better if some of the money that is spent for unsightly designs, could be used to hide the newly turned soil, and take some horror from burial.

When we have it to do, we use two boards eight feet long, nine inches wide, and two four feet long, nine inches wide. These we place around the edge of the grave, and on the edge of the boards we put tacks about five inches apart, and from these tacks we hang smilax. Always be sure that the box that the coffin is to be placed in is in the grave before you commence work or you will be obliged to do it all over again. Now, the boards on top are to be concealed, which we do with smilax, fern, asparagus or palm leaves, and after we have a good bed of green we throw flowers carelessly on top, violets and lily of the valley we have used with very good effect, but any flowers are pretty so long as the variety is not too great. We have also fastened a few flowers on the smilax that hangs down, although we should not advise using too many for that purpose. Now the mound of earth should be covered, which can easily be done with laurel or cedar boughs. A vastly different impression will be left on the minds of the unhappy friends. Often some of the friends wish to remain until the grave is filled in with earth; when this is the case, lift the boards that the smilax is fastened to, drawing it to one side, and when the mound is formed, draw it back, thus covering the whole mound with green. H. H. BATTLES.

Easter Plants and Flowers.

BY THOMAS CARLEIDGE.

[Read before the Florists' Club of Philadelphia at the June Meeting.]

The Easter of the present may truly be called a festival of flowers, and deservedly so, for at no other season are they more appropriate, representing as Easter does the glorious consummation of the Savior's life work for humanity, his resurrection and ascension. Occurring each year in the early spring, from middle of March to latter part of April, it always has been a joyous season in every christian community and church, and what can be more appropriate or beautiful for decoration than plants and flowers, nature's own handiwork? In offering to prepare this paper I thought I had it all in my mind, that I knew it all, but find that it requires more time and attention to get at statistics and particulars than I can give in the brief space allotted for its preparation, and shall only offer my opinion of the most useful and salable of the many plants offered at this special season, the quantity grown and sold by a few of our wholesalers, and what have been sold at retail that came under my own special observation.

Twenty-seven years ago, for then my Easter experience commences, we had no Easter trade worth speaking of. A few very ordinary flowers made up in one sided bouquets, a calla in the top and all made as nearly alike as possible for the Catholic churches, a few calla plants, the only Easter lily we then had, was almost the extent of our Easter trade. But I have seen it growing steadily for that time to its present dimensions, the best season of all for the florist, whether whole-

salor or retailer, with its demand for almost every form of plant and flower that comes in or can be made to bloom at this season of the year.

Let us take up the plants and flowers most used in our Easter decorations in the order as they seem to be of most importance.

First the lily, the longiflorum or Harrisii, now most generally known as the Easter lily, the typical Easter flower of the present. I do not think it was used or recognized as such in olden times, as I have never seen it represented in the old pictures of Spanish and Mexican artists in connection with their saints, a subject they were very prone to illustrate, but universally the candidum, which I still think is the true Easter lily of old time traditions. That this is an age of improvement in floriculture is surely evident in the prominence given to the longiflorum and Harrisii, as it is so much superior in every way to the candidum as a church or house decorative plant. Old time tradition must give way to the practical with florists, as with other business, however much we may deplore the substitution of it for sentimental legends of the past.

In referring to the few statistics that I have been able to gather up for four or five of our largest growers, I find that they raised and sold from 6,000 to 7,000 plants that I judge would average 75 cents per plant at least, they being sold at from ten to fifteen cents for each flower and bud. Cut flowers nearly as many. Our own sales at retail being about 750 plants and 1,000 cut flowers for the week ending with Easter eve. I notice that one prominent Bermuda grower promises to have for market this year, at least half a million bulbs, and that one grower wants at least 20,000 for his own use. We had them this past Easter in almost all shapes, some with very tall, weak stems but good flowers, some quite short with flowers not so large, but of good substance, and some splendidly grown ones with from 5 to 15 flowers on a plant, and they all sold equally well. There seemed to be customers for all kinds. Plants were better grown and in better condition this year than usual, or we received them in better condition, which I think is owing in a great measure to having them delivered earlier, before too much out. And this to the grower: Try to deliver them before they are too fully expanded or carefully wrap each flower in soft paper. It saves loss of flowers and cash to the grower, and better still, loss of temper to the retailer. I suppose there was at least as many sold by the multitude of small growers as I have enumerated above.

Mr. James Dean of Bay Ridge, in his able paper read before the Society of American Florists last year in Boston, places the azalea second on the list, and for New York he is probably correct, but I think for our city we must concede the hydrangea second place, at least that is my opinion in referring to purchases and sales; although it may be owing to the scarcity of good azaleas, the supply for Philadelphia being limited, I think our growers were all sold out.

The hydrangea as a decorative plant has few equals, especially the Thomas Hogg variety, when white flowers are wanted for church work and decorations. The one great objection to them is that it is almost impossible to keep them watered enough; they will wilt down if they get the least dry. Give them plenty of water and not too much air, and there is nothing better for lasting.



CASKET CROSS.

Let them be grown slower, give more time to harden off in a cooler house, if season and time will permit, and I think we will have fewer complaints, more color in the flowers of the pink varieties, and better plants generally.

All the varieties that are commonly grown: Thomas Hogg, Otaksa, Hortensia, Rosa, seem to be about even in the race. The red stemmed variety, said to be new, was in beautiful form and color on a few plants I saw at Mr. W. K. Harris', and seemed very desirable, but does not force as well as the others. The sales of our larger growers were about 2,000 plants—250, I suppose, would

cover our retail sales; very few were sold as cut flowers, although a large number of the white ones were cut up and used in white work. The plants could be bought at prices that paid well to cut, in the scarcity and high prices of carnations, etc., for Easter.

The azalea is one of the best of our Easter plants, as far as beauty and durability are concerned. A splendid window plant, very durable and giving the best satisfaction if only fairly well taken care of. Give it plenty of water and it will stand both a hot and cold atmosphere. I do not specially care for the symmetrical trimming our German friends give them

but rather prefer the old bushy style, but the former seems to be the fashion and they sell. Their high price rather keeps them back, but they are getting cheaper and better each year, bringing them within reach of a larger circle of plant lovers. I am not well enough acquainted with the varieties to speak of many of them, but place Madam Vander Krusen first; have sold more of it than any other five varieties. It has more good qualities than any other azalea I know. Deutsche Perle, Bernard Andre alba, and the old Indica alba, are all good whites, Deutsche Perle especially for early. The new double Vervaeuana is a very pleasing color and fine flower; and I hope it may fulfill the great expectations entertained of it. Azalea sales: Growers 2000; our retail 200 plants, large and small.

The *gnosta* or *eytissus*, indispensable in our yellow decorations, is a most useful plant, not so showy or graceful as *Acacia pubescens*, but fills its place, for acacias are not to be had. Our growers report sales of about 500 plants; our sales about 125 plants, large and small.

Astilbe japonica or *spirea*, another most useful Easter plant, remains long in bloom under all circumstances if well watered, reasonable in price, within reach of all, and was very generally used throughout our city this Easter. I think not less than 6000 were sold by our growers. Have no idea how many were used, as the plants were cheap enough to cut up for flowers and green.

Deutzia gracilis is indispensable for florists' Easter work, as there is nothing prettier or more graceful in cut flower work, and if not sold as a plant, can always be cut up to advantage. There was a large quantity around the past Easter and plants sold well.

Lily of the valley, well grown, about ten roots in a 4 or 5-inch pot, always sells well and commands a good price. Should not be allowed to get too far advanced in flower and should be well hardened off in a cool house: one of the Easter plants that can always be used as a cut flower if not sold as a plant. We have used it largely for filling fern pots and in-door window boxes, especially for Easter holidays. The sales of plants and cut flowers must have been large, but did not get any statistics; our sales of cut flowers and plants for the week ran up into the thousands.

Rose plants were scarce, especially hybrids. From what I saw in my visits to the different florists, the imported budded varieties did not do well this season. They either came in bad condition or were taken up at the other side of the water without being properly ripened; when well grown they make the best rose plants for Easter, giving good foliage and fine flowers. Magna Charta, Mme. G. Luizet, Baroness Rothschild, Merveille de Lyon, and Jacqueminot, being favorites among the hybrids; La France, Hermosa, Duchess of Albany, and Madam Plantier apparently doing best in other classes. The new polyantha rose, Clotilde Souper, is in my opinion one of the coming roses for an Easter plant. Well grown roses always sell well at Easter, only they must be sold quickly as they do not last well after being subjected to severe forcing.

Rhododendrons, if well handled by our growers, would be a live competitor with the azalea, especially if we could import them in good condition and at reasonable prices. Their beautiful colors and clean, bright foliage make them very attractive, and we have found that they sell well if in good condition, and an elegant plant in a decoration.

Hyacinths were in very good condition and quantity and they sold well, being used in many decorations in churches and for window boxes, and many other places where a low plant in full flower was required; and a great many were used as window plants in private houses. Our principal growers report sales of about 3,000, which I think may be less than one-half the quantity sold in Philadelphia this last Easter.

The common *Marguerite*, or *Paris daisy*, also came in prime condition, and sold well. I am sure it gave good satisfaction to all parties, as all of our growers who had them in full flower sold out, so far as I know, at satisfactory prices. A very useful plant, not only for Easter, but for general winter use where a showy white flower is needed, does well in the house, and thrives with but little care.

Callas, still favorites with some of our old-fashioned people, I do not think sold as well this season. For the first time in my recollection the supply exceeded the demand, with us, both in plants and cut flowers.

The early flowering *myosotis*, or forget-me-not, was very scarce this year, and it is a plant that always sells well, especially when grown in such splendid five-inch pot specimens as our fellow member Harris had it a few years ago. I trust some of our enterprising florists will try it and do it well for next Easter, as it is much inquired after at that time.

Large quantities of pansies, geraniums, and other small plants in good condition, always will sell, but the expense of delivery to some of us is a drawback to attempting to handle them in quantity. We must send them home for many of our customers, and it costs more to deliver them at long distances, as we often have to do, than the price of the plants; a fine azalea, or hydrangea, on which there is a good profit, can be delivered at the same expense.

More palms were sold this Easter than ever before in my experience. *Areca lutescens*, *kentias*, *latanias*, and *pandanus*, not the very large, expensive ones, but plants running from \$2.50 to \$10, and they always do so well in the house if only given half a chance that it is a real pleasure to sell them; very few complaints about them, and, besides, there is generally a liberal profit for the retailer, or we can keep them for our decorations for another year without loss, and they grow into money for the grower who has a greenhouse and will take care of them.

Before closing with the plants, I must add a good word for the double daffodil, especially as we had it at this Easter so well grown, both in foliage and flower, its beautiful bright yellow, a fashionable color, made it a deserved favorite, both as a cut flower and plant. May our growers keep it up to this year's standard or better. Plants the last year or two have taken a decided lead in our Easter sales, not that cut flowers have fallen off, but they have not advanced anywhere in proportion to our plant sales, one of our largest growers reporting his sales of plants at about \$5,500, cut flowers \$500, for the week ending Easter evening, and other growers of both flowers and plants in about like proportion. I regret that I cannot give more exact flower statistics, as I found that it took too much time to collect them at this busy season for us all, but can say that our firm's sales of roses were not less than 6,000, of all sorts, carnations 10,000 to 12,000, and violets, single and double, at least 8,000 flowers, with large quantities of

snulax, adiantums, double and single daffodils and tulips, jacks and lady-brides selling best in roses, and the carnation, one of our staples, not decreasing the least in its deserved popularity, good double violets coming in next.

Easter is our best of holidays, whether for grower or retailer, a red-letter day in every florist's calendar, for there are more flowers and plants sold, with more profit in this short season, than at any other time; worthy of plenty of time both in thought and preparation, and, in trust we all agree, if our growers especially, endeavor to improve. They have done well this season, but there is still room for improvement. Grow your plants well; not too many of them, but all good. Give a little more time to their preparation for market, clean the pots whenever practicable, cut out all dead wood and yellow leaves, and tie up nicely in good season, and you will find your sales half made and get out your bills and cash beside. Pack carefully for delivering, sending out as many of your likes as you can with flowers just breaking, tie up in paper and arrange carefully in your wagons. There are flowers enough injured many a time to pay for an extra hand or two for a few days. We had but little to complain of this year, our plants being delivered in better condition than any former year. We have found it very desirable to employ extra help for our delivery; a good man or boy will carry out a good many plants in a day, especially for short distances, and without breaking, saving us much complaint and trouble from our customers afterwards.

I have been reading our census bulletin on commercial floriculture by and under the supervision of our commissioner, J. H. Hale, which I suppose you have all received, and are familiar with its contents. I do not think it does us full justice, for we good men or boys will carry out a good many plants in a day, especially for short distances, and without breaking, saving us much complaint and trouble from our customers afterwards.

In nothing is the growing taste for the beautiful more shown than in the rapid development of the culture of flowers, as shown by the statistics given in this pamphlet, and for the first time in our history commercial floriculture has been made the subject of a special census inquiry. It is no doubt true that the great increase in wealth in our large cities has been one great factor in the development of this industry by creating a demand for plants and flowers for the decoration of our homes and parks, but it is equally true that many of humbler means, our mechanics and laborers, are purchasers of plants, especially for their windows and little gardens, for I took particular notice that even among the residents of our smaller streets almost every window had a plant or two, small and inexpensive, but still showing a love for the beautiful and a desire to decorate their humble homes for Easter, a taste we should all encourage, for if every home in this city of homes contained only two or three plants, the supply would fall very short of the demand.

One Good Way to Sell Nursery Stock.

(Read before the American Association of Nurserymen, at Minneapolis, Minn.)

Mr. President and Members of the Association: Before proceeding I desire to say that in responding to the invitation of your secretary to inflict something upon you I wrote: "You may put me down for a short *screen* on one good way to sell nursery stock," and I wish it

distinctly understood that this is a *screen* and not a *read* as announced in the programme.

But to the subject. At the present time in nearly every small place in the country will be found a florist, in the larger towns several. Each one has more or less land in an accessible location. He is to a very considerable extent headquarters for people interested in horticultural matters especially for those leaning toward the ornamental features of horticulture. He knows something about trees and plants. In many cases he is a gardener and small fruit grower as well as a florist. He is a resident of the place, generally has some standing in the community and can be found when wanted. He can't raise nursery stock, but isn't he peculiarly well situated to sell it? If a florist were induced to plant on his place a sample lot of ornamentals, when his customers saw them at their homes wouldn't they be apt to place their orders then, for delivery at the proper season, if he could tell them he could supply specimens like those on his own grounds, and wouldn't it be a great advantage in the sale for the florist to make his prices right and then send a man who knew which end of the tree to put in the ground and plant it properly. Improper planting as you all know has been the cause of the nurseryman receiving much undeserved abuse, as has also the frequent long exposure of the stock in inexperienced and careless hands after unpacking and before planting. If the stock was shipped to a man who not only knew how, but had the facilities to take care of it upon receipt and to whom the customer would look in case of failure, it seems certain that the percentage of failures would be much less and the satisfaction to buyers and consequent increased sales correspondingly greater.

The one good way to sell nursery stock to which I refer is to cultivate closer relations with the florists of the country, and sell to consumers through them.

The florist can, I feel sure, increase your sales and at the same time make a profit for himself. This need not interfere with your present system of selling through agents. The latter reach sections of the country where florists have not yet a foothold. The florist is more generally found in sections that the agents have pretty well drummed over and I regret to add where he has generally left very unfavorable impression behind him. The people in these places do not care to buy any more cats in a bag. They want to buy but they won't do it unless they can deal with someone they know to be reliable and whom they can find again, should the stock not be as represented. And of whom would they rather buy than the man from whom they purchase their other ornamental plants, and in whose judgment on matters horticultural they have confidence? Again, they want to see what they are buying. Colored plates won't do with these people. Colored plates deluded them once, and in colored plates they have no more confidence. Recollections of the Bartlett pear tree that bore Red Astrachan apples still linger in their memories.

You may make arrangements with the florist to take orders for you on commission or you might get them to buy outright wholesale. But the matter must be presented to them in proper shape. I feel sure that the florists are ready for it. Some time since the matter was presented in the columns of the AMERICAN FLORIST and much interest was developed. The

one thing lacking was the knowledge of how and where to get the stock, and the right kind of stock. You nurserymen must supply this. You must present the matter properly to them. Your usual catalogue is not sufficient. You should make up select lists of stock which occurs to you as specially suited for this trade, and be prepared to supply sample lots. Tell them just what you can and will do; talk to them just as the manufacturer of other lines of merchandise talks to those who sell the products of his factory. You are a manufacturer, make the florist a dealer in your goods. I am firmly of the opinion that there will be increased sales for the manufacturer and money for the dealer in this business relation.

Before closing let me point out another advantage of this plan. It is a well known fact that trees and shrubs that do well in one section do not do well in another. Your dealer being right on the ground all the time could soon determine which were best for his locality, and could direct his sales accordingly, thus giving an additional satisfaction to buyers.

I hope that the subject will receive at your hands the consideration which I believe it merits.

Boston.

There has been a big supply of roses and carnations in the market during the past week, but many of the roses are beginning to have that tired look and to get first class stock one has to do considerable selecting. Carnations have been affected favorably by the very cool weather and the average stock is still of very good quality. Lily of the valley is in the market to stay and can be supplied here all the summer through. Sweet peas are quite plenty. A few pink pond lilies are already seen.

The florists have all been kept quite busy on account of the large number of weddings. Norton Bros. were singularly fortunate last week in having three wedding decorations in succession in one church, so that the same plants with slight changes in their arrangement sufficed for all three, without any removal. But having good fortune is Norton's normal condition.

Milk weed balls were used more largely by the florists here than ever before for Decoration Day emblems, some of them having their windows completely filled with these fluffy forms.

E. M. Wood & Co. will offer at the spring exhibition of the Mass. Horticultural Society next year, three special premiums of \$100, \$50 and \$25, for the best blooms of the new rose Waban. Competition will be open to everybody. This is a prize worth competing for and lively times are expected.

J. S. Fay received a certificate of merit for pansies exhibited at Horticultural Hall on May 30. Speaking of pansies, Zirngiebel made a pretty good sale last week. Twelve dollars for twelve plants was the figure.

The rhododendrons in the Public Garden are in splendid shape this year and attract much attention. Pilgrimages to H. H. Hunnewell's to see the magnificent display there are now in order. The place is crowded with visitors every day.

The Gardeners' and Florists' Club at its June meeting voted to include the ladies in the annual excursion this year. This is the first time on record, and is one of the good results of the visit of the National Society to Boston last year.

Mr. A. J. Abbott, who was employed at Horticultural Hall for many years as

janitor, died last week. He was much liked by the people of the society, a number of whom attended his funeral.

Mr. Hugh Dickson, of Belfast, is with us for a few days. If his orders average in length equal to his physical proportions he will have no reason to complain.

Mr. Chas. Storer has gone to Short Hills to spend a few weeks painting orchid pictures for Pitcher & Manda.

Mr. R. C. Patterson and wife of Pittsburgh honored us with a visit just before Decoration Day. It was their first trip to the Hub and their friends here regretted exceedingly the demands of Decoration Day which made it difficult to show the hospitable Bob the attention which he merits.

Mr. Louis Menand, of Albany, has also been spending a few days with his Boston friends. The old veteran is accompanied by his daughter. May he live to come again many times, is the hearty wish of his many admirers and friends here.

W. J. S.

New York.

The past week has been the worst of the season. The market has been overstocked with cut flowers of all kinds and no demand. Never before have roses and other flowers sold for such low prices as last week. But as there are several large weddings during the next two weeks we look for a big improvement.

The supply of roses will be getting shorter from now on, as a number of the large growers have commenced throwing out their old stock and replanting.

There are large quantities of Cape jasmines in the market, shipped here from the south, but the prices obtained for them have been very low.

Mr. P. Connelly, of Madison, sails for Europe Wednesday, the 10th, on the City of New York.

JOHN YOUNG.

News Notes.

OCONOMOWOC, Wis.—J. T. Bartlett's greenhouses were badly hit by hail June 4. Insured in the Florists' Hail Association.

CINCINNATI.—Alfred Forder reports loss of 1,700 feet of glass by hail June 5. His neighbor lost 2,000 feet and many other places were badly cut up.

WOOSTER, O.—The Wooster Floral Club will give its first exhibition November 4 to 6 next. Copies of the premium list may be had on application to the Secretary, Mr. W. A. Porter, Wooster, Ohio.

NEW HAVEN, CONN.—The Chrysanthemum Club has enlarged its executive committee, and expects to have an unusually fine exhibition next November. Prizes to the amount of \$250 will be awarded.

CLYDE, O.—On June 3, E. Hall & Son lost 2,500 square feet of single thick and 250 square feet of double thick glass by hail. No insurance. Many of the stones weighed from four to six ounces. Great damage was done to crops in this section.

EAU CLAIRE, WIS.—C. E. Griffiths has taken an eight year lease of B. F. Millard's place and will continue the business. Mr. Griffiths came from England about a year ago. He is a son of Thomas Griffiths, the well known English rose grower, near Hereford, and was for eighteen years with John Cranston & Co.

ATLANTA, GA.—C. A. Dahl & Co. is the style of a new florist firm here, composed of C. A. Dahl, formerly of Vineville

Greenhouses, Macon, Georgia, and Colonel W. S. Thomson. They are erecting two houses 20x100, and two 10x100, with office 15x35 and potting shed 12x 60. Double thick 14x14 glass is being used, butted after the system described in the FLORIST by Mr. Dale, of Brampton, Ontario.

SPRINGFIELD, MASS.—The spring exhibition of the Amateur Horticultural Society will be held next Tuesday and Wednesday. Memorial Day trade here was the largest in years, though prices were high. Bedding stock is bringing good prices, with the exception of verbenas, pansies and geraniums. Pansies and verbenas are sold at 35 cents a dozen, and geraniums at \$1 a dozen, which leaves but a small margin for the grower. The Hampden County Horticultural Society will hold a rose and strawberry exhibition and festival in the city hall Thursday and Friday of next week.

ST. JOSEPH, MO.—The semi-annual meeting of the Missouri State Horticultural Society, held here June 2, 3 and 4, was a very interesting and successful one. Among the papers read was one on "The florists and their growth in Missouri," by Hans Nielson, of this city. A resolution asking that 20 per cent of the \$150,000 appropriated by the state legislature for a World's Fair exhibit be devoted to a proper representation of the horticultural products of the state, was adopted. A resolution protesting against the appointment of Walter S. Maxwell as Chief of the Horticultural Department of the World's Fair was also adopted.

BALTIMORE.—The Gardener's Club, in order to cultivate a taste for flowers among children, will father a new department for this locality by the free distribution of plants among school children, the plants to be matured and exhibited at the fall chrysanthemum show. Mr. John Donn has already the names of over 100 pupils of public and private schools, which have been given him by the teachers, and he will shortly appoint a day and a place at which the children will be notified to call for their plants. One day of the fall show, to be known as "Children's Day," will be set apart for the young gardeners, and no admission will be charged. Their plants will be put on exhibition, and whatever prize or prizes are up for competition will be awarded by the judges. With each plant given out will be presented printed directions for the management of chrysanthemums. The rules contemplated will not prevent children who have procured their own plants from competing with the others, but no one over fifteen years of age will be allowed to compete. It is the purpose of the projectors of the plan to get eight or ten names of children from each of the schools, through the teachers, who are expected to select those children who will probably expend sufficient care in rearing the plants to bring forth the best results.

WHEN sending us small amounts in postage stamps, please select those of the 2-cent denomination.

WHEN remitting small amounts by check, please add ten cents to the amount or the check to pay the exchange on same.

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

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 No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in plants pertaining to those lines only. Please to remember it.

Orders for less than one-half inch space not accepted. Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

June 16-17, Springfield, Mass.—Spring exhibition Springfield Amateur Hort. Society.

June 17, Providence.—Rose and strawberry exhibition Rhode Island Hort. Society.

June 18, Hartford, Conn.—Rose show Hartford County Hort. Society.

June 18-19, Springfield, Mass.—Rose and strawberry exhibition Hampden County Hort. Society.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society.

June 29, Hamilton, Ont.—Rose show Gardeners' and Florists' Club of Hamilton.

July 22-23, Toronto, Ont.—Flower show Toronto Electoral District Agricultural Society.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society.

September 22, Hartford, Conn.—Fall exhibition Hartford County Hort. Society.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society.

November 2-5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society.

November 2-8, New York.—Chrysanthemum show Madison Square Garden.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society.

November 3-6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club.

November 3-7, Detroit, Mich.—Chrysanthemum show Detroit Florists.

November 4-6, Wooster, O.—Exhibition Wooster Floral Club.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society.

November 10-12, Pittsburgh.—Chrysanthemum show Pittsburgh and Allegheny Florists' and Gardeners' Club.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society.

November 10-12, Toronto, Ont.—Chrysanthemum show Toronto Gardeners' and Florists' Club.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists.

November 11-12, Worcester, Mass.—

Chrysanthemum show Worcester County Hort. Society.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society.

November 11-12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club.

November 11-13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society.

November 11-13, Utica, N. Y.—Fall exhibition Utica Florists' Club.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society.

November —, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore.

November —, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society.

November —, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society.

November —, New Haven, Conn.—Chrysanthemum show New Haven Chrysanthemum Club.

THE FOREMOST QUESTION horticulturally continues to be, who shall be Department Chief of the World's Fair? California having been granted the honor of naming the man in consequence of her efforts financially and otherwise on behalf of that enterprise, it would seem to be the view of the local Board of Control to confirm her nominee, provided certain charges made against him could be disproved.

The latest rumor as we go to press is to the effect that Mr. Maxwell has convinced the Chicago committee of the falsity of some of these; they say further, however, that the matter is not decided. Meanwhile a very strong representative committee from the Nurserymen's Association, with such men as Barry and Garfield at the head, are making a final protest. If these fail, it would certainly appear that horticulturists count for but little in this appointment.

A GLANCE at our list of coming exhibitions in this issue and at the list published at same date last year shows a remarkable increase in the number of exhibitions to be given the coming fall. The stimulating influence upon the trade of all these exhibitions all over the country can hardly be estimated. And the chrysanthemum has been an important factor in bringing this about. With this flower to supply the bulk of the material, exhibitions have been possible where without it the attempt would not have been made. But while the chrysanthemum must be our main dependence in our November exhibitions do not fail to display all other flowers available at the season. Give the people as much of a variety as you can.

WE BELIEVE that the essay on Easter plants and flowers, read by Mr. Thomas Cartledge before the Florists' Club of Philadelphia at its last meeting; and which appears elsewhere in this issue, will be much appreciated by our readers. Mr. Cartledge is a member of the Philadelphia firm of Pennock Bros., and his experience in the retail branch of the business has been long and varied, and what is directly to the point, eminently successful.

WE HAVE received a copy of the preliminary list for a grand horticultural exhibition to be held at Ghent, Belgium, August 23 to 30 next, under the auspices of the Cercle Horticole Van Houtte. There is a lengthy list of prizes consisting mainly of gold, silver and bronze medals.

IF YOU LIKE the AMERICAN FLORIST give it your fullest support by confining your orders to those who advertise in its columns and mention the paper when ordering.

Catalogues Received.

United States Nurseries, South Hills, N. J., new and rare plants; same, hardy perennials; J. M. Thorburn & Co., New York, trade list seeds; same, forcing bulbs; Wilfred A. Brotherton, Rochester, Mich., Michigan wild flowers; same, trade list same; same, plants for carp ponds; Margrave & Ward, Hiawatha, Kan., plants.

Minneapolis.

Mr. R. J. Mendenhall's already extensive plant is being further enlarged by the addition of fourteen large houses, the construction being entirely of brick, iron and glass. And in addition to this he is making arrangements for the erection of a range of ten new houses, to be located some distance out of the city. The construction of the new houses is on an entirely new plan, and the result of the venture will be of decided interest. The sash bars are of galvanized iron, with drip gutters, the glass is bedded in putty, and the bar then covered with a galvanized iron cap attached to the bar by copper strips in such a way that the cap can be readily removed for the replacing of broken glass. The roof has a rather fragile appearance, there being but one purline of angle iron, and consequently but one row of supports through the house. The houses are fully eighteen feet wide. The houses are built together; joined by galvanized iron gutters of large capacity, the weight of the roof resting on iron castings, which set on the brick wall saddlewise and extend up to the top of the iron gutter. Most of the houses are of the three-quarter span style, facing south, and with the view of keeping one from shading the other, each one is six inches higher than the one to the south of it. As they are on level ground, this brings the one farthest to the north pretty high up. In addition to the three-quarter span houses is one with a very high equalspan roof for palms, the sides also of iron and glass, of quite fragile appearance. The roof will be supported by trusses. The action of this house under a high wind will determine whether this construction can be considered desirable. The cost of the iron sash bars by the plan adopted is said to be no more than that of the wooden construction, and the contractor who is building these houses guarantees them to last for forty years. The result of this experiment in construction will be looked for with interest, especially as to the action of the iron sash bars in the climate of Minnesota during what the fruit growers term one of their "test" winters.

Mr. Mendenhall's place is a decided surprise to Eastern visitors. Such a large, well built, and generally well arranged and conducted establishment is not generally looked for in the great new West. Mr. Mendenhall has a very efficient foreman in Mr. Allison, and the young roses which were being grown to stock the new rose houses were in a condition to do credit to any grower.

54 La Salle Street, CHICAGO.

Re Seed Trade.

SEED TRADE ASSOCIATION.

ALBERT M. McCULLOUGH, Cincinnati, president, JOHN FOTTLER, Jr., Boston, secretary and treasurer. The ninth annual meeting at Cincinnati, June, 1891.

The Seed Trade Association.

CINCINNATI, JUNE 9.—The American Seed Trade Association convened in annual session this morning at the Bunnell House. Among those present in person or by representation were the following:

Currie Bros., Milwaukee;
S. F. Leonard, Chicago;
Sam'l Wilson, Mechanicsville, Pa.;
A. J. Brown, Grand Rapids, Mich.;
W. W. Barnard, Chicago;
P. Barteldes & Co., Lawrence, Kan.;
A. D. Cowan & Co., New York;
Wm. Mezgaht, Wethersfield, Conn.;
D. I. Bushnell & Co., St. Louis;
C. Young & Sons Co., St. Louis;
Albert McCullough, Cincinnati;
Jno. Fottler, Jr., Boston;
J. C. Vaughan, Chicago;
Johnson & Stokes, Philadelphia;
V. H. Hallock & Son, Queens, N. Y.;
Emerson Seed Co., Omaha;
Z. De Forest Ely & Co., Philadelphia;
Storrs & Harrison Co., Painesville, O.;
Robert George, Painesville, O.;
F. E. McAllister, New York;
Albert Dickinson, Chicago;
Richard Protischer, New Orleans;
E. B. Parsous, Falsington, Pa.;
C. A. Reeser, Springfield, O.;
Robert Livingston, Columbus, O.;
W. H. Maule, Philadelphia;
And Mr. Ford.

The Cincinnati people will entertain the visitors with an excursion, concluding with a dinner at Kennedy Heights on Friday.

MR. WILLIAM KELWAY, of Langport, England, is making a two months' trip in this country. This happens also to be the honeymoon journey for Mr. and Mrs. Kelway, and they find it quite delightful. Messrs. Kelway & Son are the largest growers of gladioli in England, and do many herbaceous perennials in quite a large way.

JOHN LEWIS CHILDS, of Floral Park, New York, and V. H. Hallock & Son, of Queens, New York, have combined their business, the retail trade to be carried on solely by John Lewis Childs, while V. H. Hallock & Son will devote their entire time to the wholesale trade.

Cleveland.

The partners of the firm of Gooding & Webb, the florists at No. 1216 Euclid avenue, have had a disagreement. Mr. Webb brought suit in the Common Pleas Court yesterday, praying for the appointment of a receiver. He claims that he entered into an agreement about a year ago to buy a half interest in the business for \$2,000, paying \$1,000 down and giving two notes for the balance. He claims to have since discovered that the condition of the business was misrepresented to him. He says that he is a practical florist and has labored hard for the success of the business, but that his partner is not disposed to give him a fair chance. Recently, it is alleged, Mr. Gooding inserted an advertisement in the Pittsburg newspapers offering the business for sale to an "enterprising florist." An injunction was granted restraining Mr. Gooding from selling the business until the controversy can be adjudicated by the courts.—*Cleveland Leader*, May 28.



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FIRST SIZE, SELECTED, much larger than French grown bulbs. Per 100 Per 1000
PURE WHITE, SELECTED, EXTRA, very fine bulbs. \$1.00 \$ 8.00
Special rates on application for large orders.

FLORISTS USING LILY OF THE VALLEY BERLIN PIPS, ROMAN NARCISSUS, NARCISSUS, DUTCH HYACINTHS, TULIPS, Etc. will do well to send lists for our special offers. The quality of our Bulbs is unexcelled.

Z. DE FOREST ELY & CO.,
WHOLESALE IMPORTERS OF BULBS,
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I offer (subject to being unsold), for **IMMEDIATE ORDER**,

WHITE ROMAN HYACINTHS,

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AT TEN DOLLARS PER THOUSAND,

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Roman Hyacinths, Paper White Narcissus,
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True Berlin or Hamburg pips, 3
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ROSES, CLEMATIS, AZALEAS, RHODODENDRONS,
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SPECIAL LOW PRICES

ON—

Lilium Harrisii, Longiflorum, Candidum, Roman Hyacinths, Paper White Narcissus, and all other kinds.

DUTCH HYACINTHS,

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The only Dutch Bulb Growers of whose firm there
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So that we can be reached always.

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Lock the door BEFORE the horse is stolen. Do it NOW!

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Largest Growers of

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And Flower Roots of all kinds. **FIRST CLASS Goods.**

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Palms and Dracaenas.

The largest stock in the west, at \$5.00 per 100 to
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DRACENA INDIVISA AND VEITCHII,
3-inch pots, strong, 15 to 18 inches, \$8.00 per 100.

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Special trade pkts. for florists, 400 seeds, price \$1.

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You will benefit the AMERICAN FLO-
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Sex in Amaryllis.

Mr. Peter Moorshiser, of La Salle, Ill., a German florist and gardener of long standing, had been boarding a reluctant amaryllis for a lady customer, Mrs. A., for some two years, when she called one day with her daughter and asked among other things after the flowering of this bulb. Mr. M. replied that it had not yet bloomed, whereupon Miss A. suggested that it was possibly a male bulb. "No," replied Mr. M., "that can't be, for it has already produced five young bulbs." Of course that settled it.

At the great World's Fair of 1893 every plant exhibited should be plainly labeled. And by plainly we mean labels that can be read at a glance a few feet distant. Large specimens should bear labels legible at a distance of twenty feet. Without such labeling, much of the educational influence of an exhibition is lost. The same principle applies to all exhibitions. We believe no better investment could be made by organizations giving exhibitions than to appropriate a sufficient sum to provide labels of the size and style needed to tell every interested visitor at a glance the name of the plant under inspection.

When you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

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Advertisements under this head will be inserted at the rate of 10 cents a line (seven words a line). Cash must accompany all ads. Plant ads. not admitted under this head.

SITUATION WANTED—By competent florist and gardener at once. No references. Address: Wm. Klotz, 1017 S. Spring Garden St., Phila., Pa.

SITUATION WANTED—By a lady who has had experience in cut flowers and design work. Address: Florist, 124 Sherman Ave., Cincinnati, O.

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SITUATION WANTED—By a first class florist: S. German, in a private or commercial place; 8 years' experience; understands handling of greenhouse stock thoroughly. References. Address: G. K. care Biederender & Muller, Hoboken, N. J.

SITUATION WANTED—An experienced nursery grower, used to taking charge of cut flower establishments, wants a good situation as soon as possible. References of the best, such as Craig Bros., Phila., and others. Address: L. B. care Am. Florist.

SITUATION WANTED—As foreman or superintendent of a large commercial place. Best of references from the leading florists in Eastern Illinois, also best of reference from business men of the city and Iandale, Ill. 30 years' experience. Married, small family. Will be ready to come in July or August. State salary and length of term desired. Address: A. C. WASSON, Hopewell, Ill.

WANTED—A good gardener and propagator, and man capable of doing any kind of work on a large commercial place. Address: HENRY MOORE, 54 Beale St., Memphis, Tenn.

WANTED—A married man who has had experience on a commercial place, to take half interest in a large place. Nine years' experience. Will be ready to come in July or August. State salary and length of term desired. Address: A. C. WASSON, Hopewell, Ill.

WANTED—Experienced salesmen with knowledge of seeds, bulbs and plants, wishing a permanent position and willing to start at a moderate salary, where ability and energy will be recognized and by advancement. Should apply by letter, stating experience, age and salary expected. Address: PETER & MANDEL, Short Hills, N. J.

WANTED—PARTNER—A competent reliable man with \$2,500 can secure chance seldom offered. Must know how to raise cut flowers and plants. Unlimited trade now well established. Present manager had had sale for all that rate of 10,000 per acre of glass 2 acres of ground; net business of \$12,000 per annum. Address: W. C. care Am. Florist.

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A fine lot of *FICUS ELASTICA*, 3 to 4 feet, well furnished with leaves; 5 and 6-inch pots. Also *Ficus Nitida* and a fine lot of all kinds of plants in bud. Address: HENRY MOORE, 54 Beale St., Memphis, Tenn.

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PANSIES THAT ARE UP. No need to worry over getting the seed to come up, it is up and ready to plant when I send them.

It is not only the plants that are up, the strain is up also; up to, and a goodly number of my customers say, above any strain in the market. The price is down, considering the quality of the strain, seed as good would cost you about as much per 1000 plants. My price is \$5.00 per 1000, or in lots of 2,500 and over, \$4.50 per 1000.

SEND FOR LIST AND SHORT PAPER ON CULTURE.

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SMILAX.

Plants ready July 1st and later. These will be nice and stocky, and ready to go right ahead. There is some 40,000 here; let me have a chance to fill your order.

Send 10 cents for samples and get my prices before ordering elsewhere.

L. B. 338.

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IN BUD AND BLOOM.

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General Collection, bushy plants.....	\$2.50	\$20.00
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Chrysanthemum varieties and prices on application.		
KRÖNEN, extra fine plants, Perles, Merm., Bride, Mme. Cusin, Mme. de Watteville, S. Dun Ami, Niphetos, Samet, La France, Cook, Goulier, Ben Silene and Safrano.....	2 1/2-inch pots	5.00 45.00
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Supply the trade with all

FLORISTS GOODS,

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FINE FERNS.

PTERIS CRETICA ALBO LINEATA,

ONYCHIUM JAPONICUM,

ADIANTUM PUBESCENS,

And other varieties.

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FRANK STREET, GERMANTOWN, PA.

Wanted.

FOREMAN for commercial establishment in vicinity of New York; must be sober and energetic; well experienced in growing of cut flowers, palms and flowering plants, and able to take charge of a large place. High salary and steady place for the right man. Address, with full particulars and copy of references.

A GROWER, care American Florist.

FOR NURSERYMEN.

Just received a lot of fresh seeds of *Iedea polycarpa* per oz \$2.00 postage paid. Also surplus stock of 2 1/2 inch Carolinaensis, from 3-inch pots at \$10.00 per 100.

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CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

A FRESH CONSIGNMENT OF MEXICAN ORCHIDS

Such as *Laelia anceps* (winter bloomer), *Laelia albidula*, *Cattleya citrina* (extra fine), *Epidendrum vitellinum majus*, *Ondotoglossum aureum* (true), *Ondotoglossum maculatum*, *Oncidium ornithorhynchum*, etc., etc., at very low prices.

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The finest stock in the WORLD. Nearly five acres devoted to their culture.

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SURPLUS STOCK CHEAP.

PER 100 GERANIUMS, single and double mixed, bushy and nice..... \$2.50

RHEON and other BEGONIAS, at 50 cents per doz. 4.00

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Announce Now Ready for Delivery, these, the finest NOVELTIES in ROSES for many years, as strong plants in pots. Price, each, \$2.50.

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Full assortment of miscellaneous, bedding and other stocks not mentioned below.

Aloysia citrodora, Anthemis coronaria, Abutilons in variety, Chrysanthemums, good varieties, Hydrangea Thomas Hogg, Hortensis, Paniculata grandiflora; Hollyhocks, Pilea, Salvia splendens, and Violet Marie Louise. All at \$4 per 100.

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Latest Novelties in Geraniums, 20 cts. each; \$2 per dozen.

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Fine assortment of Fuchsias, 2-in. \$3, 3-in. \$6, 4-in. \$10 per 100.

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THE FAMOUS Azalea Vervæniana.

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And all the other NEW and Standard Varieties of TEAS; Hybrid Remontant, including HEINRICH SCHULTHEIS, which is by far the best early forcing Hybrid. This is the variety which MR. JULIUS ROEHRHS has forced so successfully for the past three years. Also all the best varieties of

HYBRID TEAS, CHINAS and BOURBONS,

For forcing, bedding, etc., etc., all of which I have an EXTRA fine stock now ready for shipping at prices as low as any one can produce such stock for. NEW PRICE LIST TO THE TRADE NOW READY.

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ROSES A SPECIALTY. ROSES.

THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices Now Ready.

ROSES.

We offer for sale this season, 30,000 FIRST QUALITY FORCING ROSES grown from two-eyed cuttings in 3 and 4-inch pots, ready for immediate planting.

MME. HOSTE, LA FRANCE, SOUV. DE WOOTTON, 3-inch pots, \$9.00 per 100; 4-inch pots, \$12.00 per 100.

PERLE DES JARDINS, SUNSET, BRIDE,

NIPHETOS, SAFRANO, PAPA GONTIER, BIERMET,

BON SILENE, 3-inch pots, \$7.00, 4-inch pots, \$10.00 per 100.

Send for our Rose Circular. We wish every Florist needing Roses to read it. ☞

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ROSES FOR FORCING ROSES

Fine Plants of the Finest Varieties from 4-inch pots, including BRIDES, MERMETS, HOSTE, GONTIERS, PERLES, NIPHETOS, DUCHESSE OF ALBANY, METEOR, CLOTHILDE SOUPERT, Etc., Etc.

ELLWANGER & BARRY,

MOUNT HOPE NURSERIES, - - - ROCHESTER, N. Y.

Roses.

WE OFFER IN PRIME CONDITION, 2-INCH POT PLANTS AT \$30 PER 1000, OR \$3 PER 100, OF

Marchal Niel, Lamarque, Salfaterre,

Bon Silene, Louis Philippe.

AT \$40 PER 1000, OR \$4 PER 100,

Malmaison, The Bride, Hermosa, W. A.

Richardson, Mme. de Watteville,

Lady Washington.

We have about 10,000 left in smaller quantities which we will close out at \$30 per 1000; good varieties; our selection. Similar, 2-inch pots, \$3 per 100.

Marchal Niels, 2½-inch pots, \$4.00 per 100.

Smilax, 2-inch pots, 3.00 per 100.

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E. G. HILL & CO.,

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Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF BEST STAPLES.

ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for florists.

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A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.

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SMILAX,



CLEMATIS (young plants),

*** CYCLAMENS,**

One inch and over. A large, fine stock.

Write for prices.

F. A. BALLER, Bloomington, Ill.

Buffalo.

Decoration day trade up to or somewhat ahead of the average of former years. Cut flowers and plants are called for more each year, designs less. Lilacs were just in season and helped nicely. On Wednesday of last week D. B. Long arranged a hand bouquet for a bride to special order, modeled after those in vogue in the London drawing rooms, the flowers being arranged one-sided and outlined similar to the shape of a garden tower. The flowers used were white roses and cat-tails, with asparagus for the supporting foliage. 'Twas very English. The following Wednesday he arranged a sort of canopy in a large window by suspending or hanging up garlands of snowballs; an inexpensive, quickly made affair, that was graceful and pretty, the fluffiness and pure white of the flowers heightening the general effect to a remarkable degree.

Weddings were numerous this week and all hands busy up to and including Thursday.

The plant men are all driving busy now filling orders and some blocks of stuff in their houses already show a decided thinning out.

J. H. Rebstock made an effective plant decoration in the entrance stairway of the Academy of Music at an opera performance by the Bostonians on Tuesday.

Gustavus Schoenfeld, of Westfield, showed a seedling carnation of a lovely shell pink tint, quite distinct and novel. "Nautilus" is its cognomen. If its habits turn out favorable it is bound to be heard from some day.

Prof. Cowell's greenhouse on East Ferry street is not the largest in town, but the botanical treasures are there, and a scientific glow pervades all. Just now nasturtiums and petunias are conspicuous.

L. B. D.

POT GROWN and HEALTHY

Asters, mixed, 3 to 4 in. high, 2-in. pots	\$1.00
" " " " " " " " " " " "	1.50
Lobelia compacta, strong, " " "	1.00
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Cosmos, large flowering, " " "	1.00
" " " " " " " " " " "	3-in. pots, 1.50

Cash with all orders.

W. T. STEPHENSON, Petersburgh, Ill.

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Long's FLORAL PHOTOGRAPHS.

"I have had the Photographs in my office to show to flower buyers, and find them a help in taking orders for more elaborate and nicer pieces than if I had not the Photos to show. I think them QUITE a help."

Apply for price list.

Dan'l B. Long,
BUFFALO, N. Y.

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FLORISTS' SUPPLIES ONLY,56 N. 4th Street,
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Floral Wire Designs

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235 East 21st Street, - NEW YORK,
Mention American Florist.ORDER NOW
AZALEA INDICA.

Fine budded plants, best sorts at

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HARDY WATER LILIES—Pink and Blue.

AT POPULAR PRICES. SUITABLE FOR FLORISTS.

NYPHEA ROSEA, pink, \$9.00 per dozen.

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PONTERDIA CRASSIPES MAJOR,

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Strong blooming plants.

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100,000 YOUNG PALMS FOR GROWING ON.

Der Sandwirth.

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Praktischer Rathgeber für Feld und Haus.

THE FARMER—PRACTICAL ADVISER FOR FIELD AND PASTURE.

Published Monthly,
BY
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PUB. ASSN.
St. Louis, Mo.

The circulation of "DER SANDWIRTH," German Agricultural Monthly, is now 32,000. The advertising rate of Ten Cents per agate line each insertion is maintained. This circulation exceeds that of any German agricultural paper in the United States, but one, and is exceeded by very few only of the publications of this class in the English language.

To convince advertisers of the merits of this paper as an advertising medium, we have concluded to give them for the first time the benefit of the advertising agent's commission of 15 per cent., when order accompanied by cash, is received before June 20th.

This makes the net price 8 1/2 cents for ten lines, \$5.50 for one hundred lines, \$55.00 for one thousand lines. Considering the circulation, this price is extremely low, and the reduction is made for the JULY ISSUE ONLY.

We trust you will avail yourself of this exceedingly favorable offer. Awaiting your order.

Very Respectfully,

L. BLANKEMEIER, Manager.

ROOTED
COLEUS
CUTTINGS.

Ten strong Cuttings each of ten Bedding varieties, by mail, One Dollar.

Twenty fine Bedding and Fancy sorts, five of each, by mail, One Dollar.

Samples of the 20 sorts mailed for 25 cents.

Stock Exhausted, except for Small Orders as above.

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Chrysanthemums.

20,000 nice young plants growing in flats. In 60 fine Novel, Modern and Standard kinds; all the colors, earliest and latest, such as October Beauty, J. Neige, Gloriamour, Mabel Jousias, Editor, White Seidler, Yellow Beauty, Golden Pledge, Mrs. J. Bullock, Elaine (the beautiful), Tokio, Early, Ada Spaulding, Aphrodite Hardy, Minnie Wamaker, Parisian, Bride, Mrs. Bessie Harre, Horatio, Reward, Mrs. P. Clinton, Twilight, Ivory, Mrs. A. C. Burpee, Mrs. J. B. Bird, Snowball, Kites, Gladiator, Diana, Fantasia, Purplea, Leopard, Gold, Mrs. Irving Clark, T. C. Price, Robt. Bottomly, Elvoshorn, W. H. Lincoln, silver, Minnie Miller, L. Canning, Snow Storm, Marvel, Wm. Singery, I. C. Price, Paragon, Queen Margaret, and many other indispensible kinds, all carefully labelled and packed, for \$2.50 per 100; \$15.00 per 1000; mixed without names, \$2.00 per 100.

GOLDEN BEAUTY, the best and most popular of all the kinds we cultivated last year for pot plants or cutting, "you can get nothing better than that." 6 plants free with every \$5 order 12 with every \$10 order or separately for the doz. \$5 each.

THE SNOWFLAKE DAISY, the coming bloom of the cut flower trade \$1 per doz. \$3 per 100, to close out. 1000000 fine Pink, finest strains, our own seed flats \$2 per 100, ready for immediate shipment until stock is exhausted.

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COLEUS Verschaffeltii, Golden Bedder, Golden Verschaffeltii, Sunset, from 2 1/2 in. pots, \$20 per 1000; \$2.50 per 100. From 5 in. pots, \$25 per 1000; \$3 per 100. Large stock plants for 100c \$1 per 100. All orders should be accompanied by money, unless otherwise specified. C. D. D.

JOHN RECK, Bridgeport, Conn.

Coleus

FOR

SEASIDE FLORISTS.

VERSCHAFFELTII, FIREBRAND, J. GOODE,
KIRKPATRICK, HERO, GLORY OF AUTUMN,
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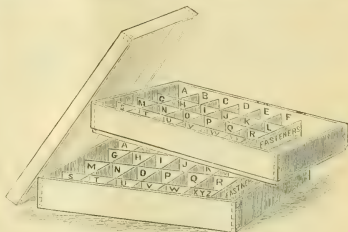
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I received 116 plants labelled Elfrida, Butterfly, Caton, Princess Alexandra, Innocence, Eclipse, Elegans, Candeur, Mad, Dubus, Venus, Leola, Mimme, Premier, King Albert, Ansel I. Simme, and Lucy Lemoine; 8 plants of each except the last of which there were 4. I wrote to the house for a description as to single and double and colors, which I received and the names and colors were printed in our catalogue.

I propagated a stock of about 500 plants and now they have come into bloom. I find the first eight varieties named in the list to be *exactly* alike,—single lavender. The next four are alike,—double magenta-pink. The next two are alike,—semi-double lavender.

So I received in all 64 plants of one variety, 32 plants of another, 16 of another, and 4 of another,—four varieties in all; the descriptions as given do not correspond except in three instances, which are apparently accidental.

The house which made this sale to me insists that the plants were correctly labelled, that the varieties are well known to the trade, that they are exactly as originally received from the French growers, and that in any case, on account of the wording of my order "as many varieties as you can furnish," I have no claim upon them.

Now I am a novice in the trade and would like the experienced members of the guild to tell me whether the varieties named are well known to the trade, and whether they are exactly alike as claimed, and, whether, taken altogether, the transaction was a fair and honest one throughout,—just what any first-class house in the trade would do under similar conditions.

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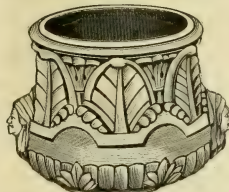
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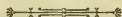
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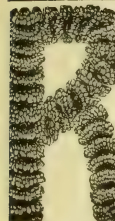
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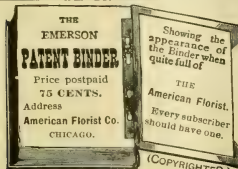
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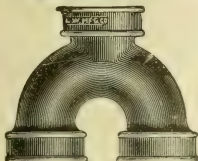
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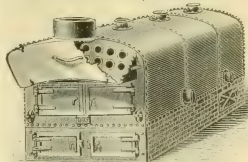
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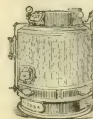
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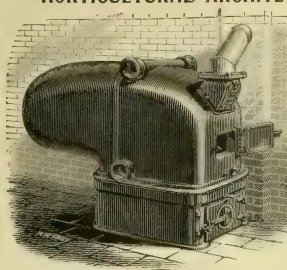
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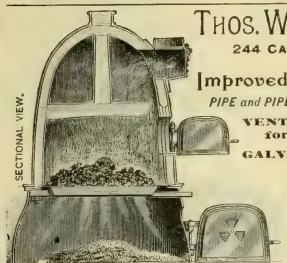
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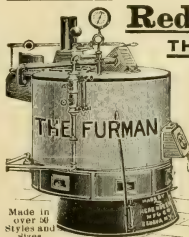
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Cyclamens for Early Flowering.

Now that premiums are being offered for cyclamens in common with other winter-flowering plants at the chrysanthemum shows, special attention to their cultivation will be necessary in order to be able to present anything like creditable specimens. The practice generally followed by cultivators of repute is, when the plants have made their season's growth and show signs of going to rest, to shake or partially shake them clear of the old soil and re-pot them. Those who require their plants to bloom in November, however, had better make sure that this work is done sufficiently early in the season to admit of their plants coming into flower at the proper time, otherwise it is advisable to avoid the re-potting and simply give them a good top-dressing with loam, bone meal, sand, and broken shells.

Growers who have vigorous young plants in 3-in. or 4-in. pots may secure the end in view by shifting them into 5½ in. or 6-in. pots and growing them in a cold frame during the summer months. When removed into warmth in autumn assist them with weak liquid manure or some good fertilizer sprinkled on the surface of the soil. By this system we have successfully attained the object in view. Referring to the system of turning cyclamens out of their pots into prepared beds either in the open or under a frame, no objections can be raised provided they are potted up in good time in the autumn. My experience, however, has been that plants which were restricted to pot culture were more readily got into bloom when wanted for conservatory decoration before the end of the year.—*The Gardening World.*

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Vol. VI.

CHICAGO AND NEW YORK, JUNE 18, 1891.

No. 159.

THE AMERICAN FLORIST

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Entered as Second Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

54 La Salle Street, CHICAGO.

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M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; J. M. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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CHICAGO, JUNE 17.—Late yesterday afternoon Director-General Davis presented a third nomination for chief of the horticultural department of the World's Fair. William Forsyth, of California, was the gentleman named, and he was promptly confirmed by the board of control. The directory has yet to act on the appointment. Mr. Forsyth is the national commissioner who pushed W. S. Maxwell for the place.

Color Harmony Among Flowers.

There is a great deal of meaning in the word harmony; it means first of all things—peace; everything outside of and in contrast to harmony simply means—war and distraction. It is absurd for us to believe that flowers are exempt from any elements which will produce dissonance and confusion because they are in themselves perfectly beautiful.

There is a story told of a certain very pretty western girl, who when she heard that a Baltimore belle would be present at the ball she expected to attend, declared her intention of remaining away. Perhaps the young lady was right, it might have happened that both she and her rival were blondes or brunettes, in either case the comparison which would be unavoidable might not be in her favor. Thus it is with our flowers; the most beautiful of them are quite likely to damage each other by mere contact. There are some brilliant and showy scarlet geraniums; they are lovely among the greens of the lawn, but pick a cluster and place it beside any one of the pink varieties and we have instant discord—war! But here is a copper birch beside us; we will pick a slender branch or two and place them with our scarlet geraniums in yonder dull olive green vase standing in the porch; the result is a harmony of color which will rest as well as please our eyes. We must remember too that scarlet is a color which works violently with its surroundings unless they be of the right sort. And although the copper-birch leaf and the geranium flower make a queer couple for a match, at least in point of color, they agree with one another perfectly.

We will have an opportunity now in the early summer of disposing in graceful groups some of these beautiful toned hydrangeas, say for a garden party. Here are some specimens of a decided pink, there are some of a purplish tint, yonder are some perfectly blue ones and occasionally we see some half developed green-white ones; if we combine a good mass of all these colors and arrange them skillfully, so they run together somewhat, we may produce the effect of a lovely bank of graduated color. Beginning at the bottom with our green-white, next taking a number of the palest blue, next the deep blue, and after the purplish blue, then slipping in a pot of the purple color and finally topping all with our pink ones, we will gain an effect suggestive of the rainbow, but delicate of color; the blue thus finally running into the pink gives us a very lovely cool effect for a warm summer afternoon. We will take it for granted that the house is colonial and its decorations are almost entirely in gold and ivories and creamy yellows. Here is our opportunity for the use of any and all the blue flowers we can obtain. If violets

are not gone we may use them in all shades, on the tables, in doors and for bouquets for the ladies, always remembering that the green leaf must not be thrown aside, nor the bit of violet blue ribbon of pale tint forgotten, to tie about the stems. There are forget-me-nots too which we can use plentifully in beds where we wish any, and in the filling of any little white vases we may spy waiting among the brie-a-brac to make themselves useful. Now we can use what white roses we wish, Brides, Niphetos and even the good old fashioned Baltimore Belle. We may even use the Madam Cusin, but we would best leave all "Jacks" and all pink and yellow roses out of consideration; we do not need them and we should in every way emphasize our blue and white combinations, leaving all yellow effects to the house itself. In a word, produce in blue running toward the pink in white and in cream colored flowers all our decorative work. Perhaps the creamy yellow Buttercup pink is none too yellow for our purpose and will combine well with any of our pale blue flowers. We will try the experiment anyway and if there are any pieces of blue and white china about we will fill them with the pinks and perhaps add a blue flower or two. There is plenty of the blue in now and we may employ it in any decoration scheme that gives us a wall for background, not forgetting the beautiful green leaves. I prefer myself to see the iris placed in white or pale green glass vases, so one may see the water, which in nature is its constant company. There are pansies now, blue as violets, and others of a pale purplish tint, which we ought to use where we need an expanse of low or flat decoration. Pansies ought to be mixed indiscriminately; there is a strong temptation to do this on account of the great variety of color they possess. But we would better sort them out, keep the bronze and yellow together and the blue and pale purple side by side. The white ones are very dainty and will always mix well with any of the pale toned varieties. But when we come to the dark purple, black and dark blue-violet varieties we must be careful and employ them sparingly, perhaps only for strong contrasts.

It is an open question whether more than three varieties of a flower can ever properly be placed side by side, and no principle of good taste broken. Our safest combinations of flower color always run inside of three tones. When we use the broad and effective paony for decoration we ought not to put more than two varieties together; try more and see the result. Your third variety, nine chances in ten, will be so much "waste powder and shot" flying over people's heads. A great bunch of white panies in a bowl shaped vase is an effective bit of decoration, especially if the bowl is yellow or

pale blue; add to this group a single one of the pink or crimson variety and your decoration scheme is ruined; there is an element of discord introduced and the harmony is gone.

When it comes to combinations of flowers possessing intense hues we are on particularly dangerous ground. The safest method of treating the "jack" rose, the crimson paeony, the black pansy, the scarlet poppy and the bright hued gloriole is to let them alone; that is, do all you can with them in a group of their own, use white flowers for the sake of sharp contrast if you will, but do not let us attempt any color combinations here; already we have all the color necessary and an added yellow, blue, orange or pink will surely result in chaos. We must remember just here that "enough is as good as a feast" and the time was when baskets of flowers containing from ten to fifteen different kinds all jumbled together so no clear impression of the whole was possible, pleased people. We do not care any more for samples of flower gardens, we want a basket of pinks or a garland of red roses or a jar of golden daffodils; something in fact that will convey to our heads and hearts one simple and perfectly beautiful idea.

F. SCHUYLER MATHEWS.

Paris.

The annual exposition of the National Horticultural Society of France, held May 20 to 25 in the Champs Elysees, was a complete success, as usual. From the fine displays of exotics in the main hall to the rows of lettuces, beans, and radishes modestly growing under a tent at the side the arrangement was perfect.

The Pavilion de Ville, in which the greater part of the exhibits were placed, is a large hall lighted from above, in which the plants shown were arranged in beds and borders, so that the effect of a wonderful garden was complete. Just within the entrance a large grass plot furnished the background for Messrs. Vilmorin's beautiful calceolarias, *Primula cortusoides*, stocks and double cinerarias, which were used to border its four sides, with an edging of nymphaeas. To the right an immense bed of tuberous begonias of remarkable size and loveliest coloring; another small bed of the new tuberous begonia Louise Robert, shown by Messrs. Vilmorin, who have bought the stock; it is a lovely double rose, of medium size and height, and very tree. A very pretty feature of the show were the various exhibits of blooming clematis, grown in pots and displayed where their great discs of blue and white would show to best effect. Jackmani, of course, was there, and Jackmani superba, a deeper shade and rather rounder flower; La France, very large and bright blue, Duchess of Teck, an extra fine white, the Queen, a charming lavender; Ville de Paris and Fairy Queen, very large and pink tinted, but said to be tender; John Gould Veitch, a very popular double lavender; Gloire de St. Julien, a grand white; Henry, Lucie Lemoine, Mme. Van Houtte, Patens Sicboldi and many more made a glorious show.

The collections of orchids attracted, perhaps, the most attention of any class, and were always surrounded with admiring crowds. Gold medals were awarded Messrs. Peters and Garden for very fine exhibits. Mr. Sander sent a plant of *Cypripedium Rothschildianum* showing three blooms on the stem stalk.

Many geraniums were shown, old and

new, but these exhibits were not so attractive as the other classes; the best new sorts I noted were Gloire Lyonnaise; Ceres, a good shade white, but rather small; President Chandon de Briailles, a single pink of a very pretty shade, and very large and full. A new pelargonium, Imperatrice des Indes, was much admired, but is hardly a distinct advance. Fancy leaved caladiums were shown in magnificent assortments, and most of them bore the low temperature of the pavilion very well. Several collections of greenhouse plants showed fine specimens of araucarias, *Dracenas Lindem*, *Camellia*, *rubra*, *terminalis*, etc., crotons, with white leaves and ornamental at the side with red roses and white iris. The most graceful arrangement of all was an onyx pedestal, on which stood a pretty marble Cupid, while behind him rose a stem of reed trimmed with orchids, and two long branches of orchids and a bit of floating asparagus formed a tall canopy over his head. Two bridal bouquets, set in satin and lace holders, were far from showy; one was of white roses, half blown, with sprays of gladioli; The Bride; the other was a pyramid of orange blossoms. The holders are small, and a wide edge of lace falls over the hand. A table decoration consisted of a solid mass of single azalea and rhododendron blooms with three bouquets of *Cocos Weddelliana* and roses. A basket of half a dozen tigered calceolarias plants was gorgeous with ribbons to match; a square bamboo fire screen, hung with blue silk, had sprays of orchids and asparagus, rising from the bamboo frame across the blue with dainty effect; the whole was surrounded with palms. The sides of the hall were largely filled with rhododendrons and Azalea mollis in the greatest variety.

At the west end of the pavilion was a tent 100 yards long and about 10 wide for the rose exhibits, mostly standards, which included all the old favorite sorts. Two very pretty exhibits were made by Messrs. Forget and Vilmorin of annuals and biennials planted in long, rectangular beds, perfect masses of bloom, but so arranged and softened as to color as to lose none of their beauty from sharp contrast. The *Convallaria majalis grandiflora* was shown almost double the size of the ordinary lily of the valley.

The display of vegetables was very interesting, as well as refreshing, after the bewildering floral display. I was amused to overhear one gardener standing before M. Kigault's potatoes say to another: "I would rather have two such tubers than six begonias." So do tastes differ, even in France.

F. L. VAUGHAN.

Group of *Cypripedium Caudatum* forms.

The illustration is engraved from a photograph of a group of plants in the collection of W. S. Kimball, Esq., Rochester, N. Y., kindly sent us by Mr. George

Savage, who has charge of Mr. Kimball's splendid collection.

Regarding the plants shown Mr. Savage writes:

"The one to the left is an extra fine form of *C. caudatum Wallisii*, lasting very much longer in flower than any other of the type.

"On the floor to the left is the new *C. Kimballianum*; next, *C. Schomburgkianum*, also *C. Stonei*.

"Every one that sees a fine grown plant of *C. caudatum*, cannot fail to admire it, this being such a remarkable and singular flower, the petals sometimes growing down to the length of from twenty-five to thirty-five inches."

Advertise the Flower Show.

When engaging in the business of conducting a Flower Show, we enter almost in the occupation of the "showman." Months of earnest work and effort, for which we should be rewarded, needs to be so arranged, planned, and developed, as to result in a success, not only as a show satisfactory to us as florists, but also as an attraction to the public and a financial success as well.

A too frequent report is of such tenor as this: "Our show was a success as an exhibition, but the attendance was light and we did not make a financial success of it." Such a condition of affairs is too generally the case. Must such be? Considering how comparatively light are the actual outlays for a flower show, as a result of the craft donating so much of what makes the display, these cases should almost never occur.

What can remedy this state of affairs? One thing will do it, if gone at rightly, and that is, ADVERTISE THE FLOWER SHOW. Advertise it big, and circulate and display printed matter freely. You are honestly preparing to give the public a large value for the small admission fee to be charged, so you are justified in advertising it boldly, even to boasting some about it.

Someone says: "We did advertise, and all we dared to invest in that way, but it did no good." If such was done, something must have been amiss in the way it was done. Let us look at the matter intelligently and take notes. First, we will notice how thoroughly the amusement loving but selfish public is appealed to by our co-laborers in the amusement field, who are regularly in the amusement business. Spite of the fact of the public being thoroughly posted on what to expect in theatrical entertainments, through continual familiarity with them, the highest grade of plays do not merely announce their coming to town. The advanced period of heralding of their coming is limited only by the number of advance agents they can afford to employ, and who follow each other in succession. Here you have a great advantage, inasmuch as your show can advance agents without salary or traveling expenses, and who are on the ground, familiar with it, acquainted with everybody, and so can exert personal influence in a way that will tell.

These advantages rightly employed should count greatly. Talk about your show often and earnestly. Boast a little, inside of prevaricating. The shows are given only at long intervals, so people forget what they mean, others don't know, or are indifferent, from having seen only poor attempts in this line, and much reminding must be done. It's a mistake, I am sure, to wait till only a



FORMS OF *CYPRIPEDIUM CAUDATUM*, AT MR. W. S. KIMBALL'S, ROCHESTER, N. Y.

week before the show begins to circulate information and printed matter.

In May of this year the Buffalo Musical Association conducted a May festival lasting four days, at which six performances were given. The sum of \$25,000 in round figures was expended, and all but about 10 per cent of it was realized, the only source of income being from admis-

sions. But they advertised it thoroughly. It had been actively projected a full year beforehand, the local press continued to give it publicity. A flourish was made over the liberal subscribing to a guarantee fund of over \$50,000. For a full month before the festival was the town placarded freely with their announcements. If a music festival can

realize such receipts, a good flower show with its affairs well managed should be a financial success every time. On the average in our towns I think 10 per cent of what was realized by the above mentioned music festival would amply pay expenses of a flower show, and 'twould seem a sad reflection, either owing to mismanagement or a positive lack of in-

terest by the general public, could so much not be accomplished.

The different clubs should harmonize, looking to use of similar forms of the miscellaneous printed matter needed, so with a slight changing of names and localities provided for in the get up of such it might all, or nearly, be done by one printing concern. Such an arrangement no doubt would cheapen it much to the clubs individually, and avoid by each the long winded work of preparing the matter, etc. The writer has been studying somewhat on the matter of what is known as a "three stand," (or consisting of nine sheets) poster for large display, and adapted to be used for chrysanthemum shows in the same way that theatrical advertising is placarded. Prospects are consummating of a printing company in this city who are largely engaged in that line of work taking hold of such as a venture of their own, and preparing to supply them in such numbers as may be needed by the various clubs. Lithograph work and printed in four colors is talked of, and it should make the nicest show card going. A reduced size would be adapted for window display. If this project carries out it should be welcome news to all of us.

It is hoped a meeting of the clubs by delegates or otherwise will be gathered together in Toronto in August. Each club's delegates might be authorized and instructed to act regarding the needed printed matter of their coming fall show, and a large amount of business thus be expedited advantageous to the club financially and to the relief of its members and committees in the fall, when other features of the shows demand all of their attention. Let the meeting be arranged. This could no doubt be most easily accomplished by the Toronto club issuing a general invitation to the other clubs to participate in such a meeting, to be held out of S. A. P. session hours.

DANIEL B. LONG.

BUFFALO, N. Y., June 9, 1891.

Long Island Notes.

BY WM. FALCONER

THE YELLOW ASPHODEL has been in bloom for a month or more, but is now becoming ragged because of the large number of seed vessels and withering flowers spread upon the spikes among the perfect blooms. Easily raised from seed and blooms the second year.

LONG-SPURRED COLUMBINES are vastly more beautiful than the short-spurred or no spurred sorts, and strange enough the long-spurred ones are strictly American.

THE LARGE ST. BRUNO'S LILY (*Anthericum Liliastrium*, var. *major*) is a perennial worth having. It has large loose spikes of white fragrant flowers well fitted for cutting or for garden decoration.

OF *SPIRÆA FILIFOLIA* there are two forms, the single and the double; the single is the more vigorous plant in every way and it blooms a day or two ahead of the double one, but for beauty, whiteness and general utility the double one is the best. Both are good hardy herbaceous perennials now coming into bloom.

SALVIA PRATENSIS, a blue flowered hardy perennial species common in old gardens, is now making a great show. It is easy to grow and to raise from seed.

CAT VALERIAN is too showy an old fashioned plant to pass unnoticed. Botanically it is known as *Valeriana officinalis*, horticulturally as garden heliotrope and domestically as a delightful bed for

kitty to roll on. But it is a pretty plant, with now its great mass of pinkish white flowers. It loves moist ground.

CLEMATIS RECTA.—For the next two weeks this grand old perennial will be in generous mood. In good ground the clumps become very large; of course their cymes and the multitude of their fragrant white blossoms are in proportion. Every clump should have a stout stake. But here again, if you will have quality in preference to quantity, get the double flowering variety.

PHYTILIRIUM.—Yes, they are splendid, single and double and all beautiful and all useful and they last well as cut flowers or when left upon the plants.

RED VALERIAN (*Centranthus ruber*), best treated as a biennial. Seedlings of last fall are now in fine bloom. Good enough as a decorative garden plant and to yield a bunch of common flowers, but not good enough for the city market.

FRAXINELLA has come into bloom. Botanically we have known it as *Dictamnus Fraxinella*, but nowadays we are informed that the white flowering form is the species and should be termed *D. albus*. If you can get either one established in your garden you may depend upon having it forever; no, not at all, it doesn't spread; it merely confines itself strictly to the spot where planted.

DORONICUM give us the longest lasting mass of yellow blossoms we have in spring. But they are coarse and of little or no use as cut flowers.

SEMPERVIVUM, commonly known as houseleeks, are very pretty now. If you want them for stock pick out those that are running to flower and give the off sets a chance to grow; and if you are using them in pattern flower bed work pick out and discard all that are running to flower, as blooming kills them, and replace with young plants that won't bloom this year.

DWARF CORNFLOWER (*Centaurea cyaneus nana compacta Victoria*) is in full bloom with me from March onward. It is a perfect little pyramid or ball, dense as an upright speciosa lobelia, about 5 to 6 inches high and full of blue flowers, set close in to the tuft of leaves. It is strikingly neat.

COMMON CORNFLOWERS from last fall's self sown seedlings are in full bloom; spring sowings are not yet in flower.

HELENIUM BOLANDERI is a handsome yellow flowering plant with large showy narrow ray blossoms. It is well worth growing; easily gotten up from seed or by division.

ZINNIA HAAGEANA PUMILA FL. PL. is blooming very prettily in a border here. The old form is a little slender or strawy with age, but this dwarf variety completely erases that fault without in the least detracting from the size, doubleness and profusion of its golden yellow blossoms.

OUR PEONIES are in splendid bloom. First of all came the double flowered tree peonies, then the Japanese single flowered tree ones and the Siberian *P. tenuifolia* single and double, then the old fashioned large double crimson and pink European sorts, followed immediately by the single white, *P. albiflora*, and now we have the great flood of the common herbaceous sorts, single and double, and in color from white to deep crimson.

SWEET ALYSSUM for fragrance. And it has all summer long answered the cry of few pretty flowers that live with us for weeks after the first nip of frost destroys our tender plants.

ANCHUSA CAPENSIS from March sowings is in bloom, pretty, forget-me-not like and 15 inches high. The more vigorous perennial, *A. Italica*, 3 to 5 feet high and forming big branched clumps, are very gay, at the same time rather coarse.

PETUNIA GRANDIFLORA SUPERBISSIMA is the biggest single flowered petunia we have. Bright crimson with open white throats is the prevailing color; there are also nested veined but no striped ones.

CAMPANULA DAHURICA, a perennial with heads of bluish purple flowers, is the best of its race now in bloom with us. But as soon as *C. persicifolia* comes into full flower *C. Dahurica* will lose much of its glory.

DRUMMOED PHLOX.—Self sown seedlings of last fall that had taken shelter among some other plants and got mulched in winter were in bloom as early as the 20th of May. But in open exposed places the fall seedlings seldom survive until spring.

CANTERBURY BELLS.—"At last." About a year ago I told you of a novelty in this line that Henry Cannell is going to give us a couple of years hence. It is a double blue flower with a calycethema "saucer." But Henry didn't have the monopoly, and I am delighted to be able to assure him that I now have a 3 feet high pure white flowered one of the same in bloom and others of other colors last swelling.

POT MARIGOLDS.—I can't help growing a lot; just stick them in here and there wherever there is a vacancy. My! what a difference there is between the big full double orange colored blossoms of the "Orange-King" and the dark hearted semi-doubles of my grandmother's garden. And these Orange-King and Meteors are just too easy to grow the way the old fashioned sorts and they bloom as easily and full. But while we might get along without them in spring I regard them as indispensable in fall, when with sweet alyssum, pansies, mignonette and trimmas, they continue to brighten up our garden till the end of November, or till hard frost comes. But for this purpose they should be sown in July.

FOXGLOVES are opening their showy blossoms and many of the spikes are 5 feet high. Although they act somewhat tender in the open places wherever they scatter themselves among the bushes they repay in vigor and massive spikes the hospitality they receive. In open places we strew some dry leaves or straw litter or evergreen branches over our plants in winter.

THE RHODODENDRONS are in full bloom. They have been blooming more or less since a month and promise to last for a week or two yet. But very dry and warm weather soon drive them past.

OUR DECIDUOUS AZALEAS were never finer than they have been this year. We have had them more or less in bloom since the 10th of May and they will last pretty well through June. The May flowers were much injured by the bumble bees, but now the bees frequent them less hence injure them less than they did last month. Bunches of these azalea blossoms are much liked as cut flowers by private parties.

ORIENTAL POPPIES are in their grandest splendor. Shirley, umbrosus, ranunculus and other small poppies from seedlings last fall are opening nicely, but the spring sowings of the annual sorts will not be in bloom for some time yet. Cut these poppy blossoms early the first morning they are seen with brilliant colors, and flowers you will have, and they will last a couple of days in very good condition.



GROUP OF ORCHIDS AT MR. W. S. KIMBALL'S, ROCHESTER, N. Y.

Wouldn't a few big bunches of them set off your store window pretty nice? Then try them. They cost very little to produce. The flush of Iceland yellow poppies is about over, but early spring raised young plants are beginning to bloom.

AND TRY ESCHSCHOLTZIAS.—When cut they keep very well for a day or two and open lovely. Some rows I sowed outdoors last March are now beginning to bloom.

Group of Orchids.

The illustration is from a recent photograph of plants in the collection of Mr. W. S. Kimball, Rochester, N. Y. His able gardener, Mr. George Savage, writes as follows regarding the plants shown:

"The photograph shows an extra fine

spike of *Dendrobium lituiflorum* Freemanii, with forty flowers on a single erect stem.

"*Cattleya Skinnerii* alba, in the centre of the group, is a beautiful white *Skinnerii*, a very charming and delicate plant.

"Also the free flowering *Dendrobium Jamesianum*, pure white, except lip, which is stained with orange red."

The Hail Storm at Cincinnati June 4.

It was a sad sight that greeted the visitors to the College Hill establishments to view the wholesale destruction of fine ranges of greenhouses. Within a space of five minutes the noble, hard working proprietors and their devoted wives had the work of a lifetime dashed to the

ground. A cessation in the storm brought the remark: "We are safe," but no sooner uttered than the gathered forces returned in treble fury, the end in several cases being total loss, and, worse still, "no insurance." Messrs. Wilson and Corbett lose about 10,000 feet, Henry Corbett, 6,000, both insured; Walter Gray, 12,000; Joseph Linfoot, 5,000, and several others no insurance. It is not so much the loss of glass as the terrific amount of labor and valuable time to get it replaced, besides the additional damage to growing stock.

There are two suggestions worthy of consideration. Walter Gray has one house glazed 18x24, and where other houses are a total loss this one is not injured to half the extent. Again, cannot the Hail Insurance Company fix a rate so as to cover cost of labor in replacing the

glass? Many men here would pay the extra rate.

Upon inquiry the writer found that the sufferers were all church members, but acknowledged they had not attended church in a long time. J. F.

Horticultural Building at the World's Fair.

We present herewith a view of the building which will contain the horticultural exhibits at the World's Columbian Exposition at Chicago in 1893.

The building will be situated immediately south of the entrance to Jackson Park from the Midway Plaisance, and will face east on the lagoon. In front is a flower terrace for outside exhibits. The front of the terrace, with its low parapet borders the water and at its center forms a boat landing. The building is 1,000 feet long, with an extreme width of 286 feet. The plan is a central pavilion with two end pavilions, each connected with the central by front and rear court-forming two interior courts 88x270 feet each. These courts are decorated in color and will be planted with ornamental plants and flowers. The central pavilion is roofed by a crystal dome 187 feet in diameter and 113 feet high. Under this will be exhibited the tallest palms, bamboos and tree ferns. Galleries in each pavilion are designed for cafes, which are surrounded by an arcade on three sides, affording views of the grounds. The exterior of the building is in stucco, tinted, a warm buff color being reserved for the interior and the courts. The appropriation for the building is \$400,000.

Phoenix.

The date palms are among those that have attained considerable prominence in decorative work of late years, and with good reason too, for generally speaking they are of graceful habit and the texture of the leaves being firm gives these plants much endurance, either for indoor decorations or for vases.

They are also of quite easy culture, which is another point in their favor, the chief essentials for rapid growth being brisk heat and sufficient moisture, though from this it should not be understood that strong heat is at all times necessary for their welfare.

The phoenix, like most other trade palms, are propagated by means of imported seeds, which usually germinate satisfactorily when placed in a warm house for six or eight weeks, or sometimes longer if the seed is not quite fresh.

Probably the most widely known of the dozen or so species comprising this genus is *P. dactylifera*, the common date, the fruit of which is so favorably known to hundreds of thousands of the dwellers in the far east (*not down east*, the favorite fruit of that locality being of a different character). In the fruiting size however, *P. dactylifera* would be of little use for our purpose, as at that stage of its development it may be from thirty to sixty feet high or even more, and it is therefore merely as a young plant that we need consider it.

In common with the other members of the genus *P. dactylifera* has pinnate leaves, the pinnae of which are narrow, rather stiff and of grayish green color and stand out almost straight from the midrib. This is decidedly one of the hardiest of the family, and will thrive in a temperature of 50° at night, though naturally making more rapid progress in a warmer house.

P. reclinata is also a handsome species and much more favored for decorating than the preceding, its habit being more graceful, and the leaves are of more attractive color, being glossy dark green. The species in question is also an admirable outdoor palm for summer use, its leaves being very tough. Another good one is *P. sylvestris*, sometimes known as the wild date from the supposition that it was the species from which the cultivated date, *P. dactylifera* was originally derived. *P. sylvestris* is of rather compact growth and in color somewhat glaucous or grayish green, the leaves being very thickly clothed with narrow pinnae, and the latter slightly pendulous. This species also stands exposure well and makes a remarkably pretty specimen in a ten or twelve inch pot.

But the best of the whole genus is *P. rupicola*, now becoming well known and sought for in preference to all others of its class. It has most graceful fronds with long narrow pinnae of dark green color and is of more moderate growth than those above referred to, *P. rupicola* seldom exceeding twenty feet in height. *P. rupicola* is pretty from the time its first character leaf is produced and only increases in grace as it does in stature.

Still another species seen at times and also useful is *P. spinosa*, also known as *P. leonensis*, which has some little resemblance to *P. reclinata* when in a small state, though not quite so desirable as the latter, the leaves being dark green in color and the pinnae somewhat sparse and sharply pointed. As this species attains age it suckers quite freely from the base, and this does not add greatly to its beauty as a specimen.

P. tenuis is also more or less used and makes a rather pretty plant too, being inclined to the dactylifera type, though with a much finer pinnae and a lighter appearance. It is also peculiar in another respect from the fact that its native country is unknown.

A recent addition to the genus, *P. Roebeleni*, may prove to be a very useful one when it becomes more common, but at present I think this species is almost entirely controlled by one European firm and consequently its sphere of usefulness to the decorating florist is somewhat curtailed.

P. Roebeleni is extremely dwarf in habit, being in fact the most dwarf of all the phoenix, and when full grown is only from two to three feet high. The leaves of this interesting little palm are gracefully arched, dark green in color and finely divided into narrow pinnae, somewhat after the fashion of *Cocos Weddelliana*. As a companion plant to the last named *P. Roebeleni* may find a place when produced in sufficient quantity, but we may be allowed to doubt whether the phoenix will prove good enough to supersede the most popular dwarf palm at present in cultivation.

Holmesburg, Pa.

W. H. TAPLIN.

Greenhouse Palms.

Time was when gardeners and others who took an interest in gardening matters in this country, had little regard for elegance and beauty of form in the plants they grew. So much so, that plants which did not produce showy flowers were not much thought of and received little attention. A few of the commoner kinds of ferns were usually to be met with in the plant houses where gardening to any considerable extent was carried out; but as for palms, the most elegant of all plants that will submit to pot culture,

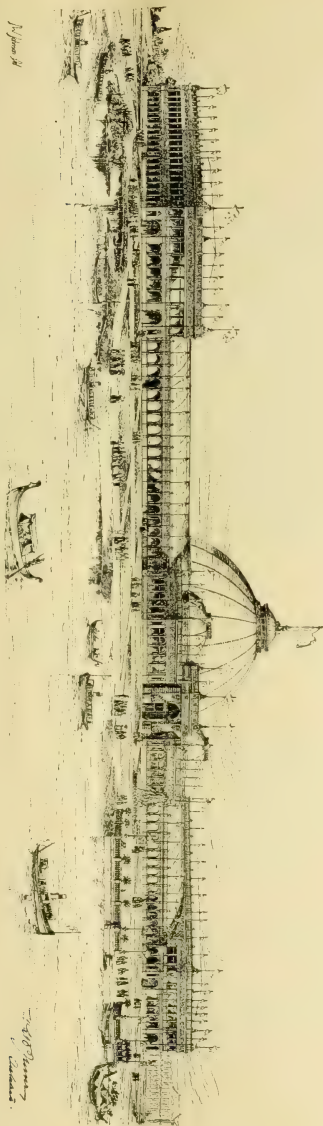
we can well recollect the time when it would have been a difficult matter to have found half-a-dozen in any county, excepting perhaps the few that existed in the limited number of botanic gardens. Little was attempted beyond the cultivation of flowering subjects, and in the arrangement of these in greenhouses and conservatories, one rarely met with any attempt at effective grouping, beyond filling the formal sloping stage, that used to do duty in most plant structures, with plants of equal height, which presented an even unbroken slope, as formal as the roof of the house that enclosed them. There was not much done in the way of decorating dwellings with plants, and that which was attempted was usually of a common-place character.

Now all this is changed. In plant-houses there are generally several kinds that are grown for the effective character of their foliage, or the elegant contour of the plant as a whole. Amongst these, palms play a conspicuous part. As a matter of course, the cool sorts, such as will thrive in a greenhouse, are the most useful, inasmuch as they can be used at all seasons in cool quarters, without suffering in the way that the more tender heat-requiring species do if kept in the winter for a length of time out of season. Of the greenhouse kind the kentias hold the first place. In a small state they are pretty and effective; but it is when the plants get from 4 to 8 or 10 feet high, and begin to show something of their true character, that their elegant habit becomes apparent. There is less difference in the appearance of the four or five kinds usually met with than there is in that of most things which have got a distinctive name. A difference in the size and length of the leaves, and in the length and curve of the individual pinnae, being the only difference existent. *K. Belmoreana* and *K. Fosteriana* are the forms mostly grown, and are enough for ordinary purposes.

One of the best properties these kentias possess is their easy cultivation, and the absence of injury by being kept for any reasonable length of time in a living-room; in fact, if stood continuously near a moderate-sized window, where they will get a fair amount of light, they thrive and maintain themselves in a condition, little, if at all, inferior to that which results when they are kept in a plant-house; only, as might be supposed, their progress is slower. We know of plants that have been kept for four or five years in a room, and which, when first introduced, were not more than 3 feet high, whilst now they are from 6 to 7 feet, and are perfect in the development and color of the leaves.

In the cultivation of these plants, one of the first essentials is to draw the line between cramping the roots too much and over-potting. Of the two evils, the last named is the worse, either when they are grown in a plant house or a living room; for if there is too much soil about the roots, and any deficiency occurs in the drainage, or too much water be given, especially in the winter when the growth is moving slowly, the roots are apt to suffer, and when larger pots than necessary are used for plants that are kept in a house where there is anything more than a greenhouse temperature, it hastens the time when they get too large for the purpose they are required, a condition which is the reverse of desirable. A 12-inch pot is large enough for a specimen 6 or 7 feet high, for with the aid of a little concentrated manure, such as Clay's or Stan-

THE HORTICULTURAL BUILDING FOR THE WORLD'S COLUMBIAN EXPOSITION AT CHICAGO IN 1893



den's, applied to the surface of the soil three or four times during the summer, or manure-water given at intervals, the requisite vigor can be maintained.

As to soil, like most palms, they are not particular. They will thrive in anything from peat of a moderately light fibrous nature to a mixture of half loam and pulverized clay; but some growers prefer yellow loam, with enough sand added to it to enable the water to pass off. The drainage requires to be efficient, and in potting, enough fibrous matter should be placed over the crocks to prevent the soil getting washed down amongst them.

In respect to water kentias require ordinary treatment. The soil must never be allowed to get so dry that the roots cannot absorb as much moisture from it as will compensate for that which is given off from the leaves; at the same time, the plants should not be watered, even in the summer, before the soil is approaching a moderately dry condition. From the time the plants are in 5 or 6-inch pots to their approaching an effective size, where they are required to be got up to this without delay, they do well in a grapery where sufficient space is allowed by not standing them close together. Under the shade of the vines the leaf stalks get a little drawn up, and the whole plants assume more of an erect character, in which condition they have a more elegant appearance, as height, rather than the lateral spread of the leaves, is what in some cases is wanted.

When grown in a dwelling, the plants should be occasionally taken out and well syringed and sponged to free them from dust; this is alike necessary for their appearance as it is for maintaining a healthy condition.

Kentias are now fast taking the place of *Scarforthia elegans*, another beautiful habited palm that a few years back was very much used for room and hall furnishing, but which will not submit to anything like the wear and tear of frequent removal in the way that the harder texture of the leaves of the kentia enables them to. Another drawback to the use of the *scarforthia* is that, if kept for any time in a hall or room where there is less light than it likes, the leaves assume a sickly yellow color, whereas the kentias are indifferent to this, retaining their bright green hue under conditions that would be fatal to the appearance of many plants.—*The Gardeners' Chronicle*.

Trade Exhibits at the Convention.

The Gardeners' and Florists' Club of Toronto, would be glad to hear from those who intend sending trade exhibits to the convention in August, so that the committee appointed to look after that department may have some idea of what arrangements to make in order that they may be displayed to best advantage.

Communications may be addressed to Mr. Thomas Manton, Florist, Eglinton, Ontario, (chairman of committee), or to A. H. Ewing, (secretary), 276 Victoria street, Toronto, Ontario.

AT A RECENT wedding in an eastern city a feature of the decorations was a floral fence with a gate through which entrance to the parlors was obtained. The fence was three feet high and was made up of pink and white carnations and roses on a back ground of ferns.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

OBITUARY.

By the death of Mr. Frederick Schlegel, of Rochester, N. Y., which occurred May 15, many of us have lost a true friend and all who know him personally will regret his untimely departure.

Three days before his death after leaving an electric car and in the act of crossing the street another car came in an opposite direction and struck him, throwing him under the car. He was taken home and although badly bruised and broken his injuries were at first thought not to be fatal, but on the second day the doctors gave but little hope, for his lungs had been punctured by the broken ribs, and they finally had to acknowledge their inability to save his life.

Mr. Schlegel was born in Southern Germany (Baden) in 1832 and came to Rochester when a young man in 1862 and soon after took charge of the greenhouse department at Ellwanger & Barry's in this city, in which position he remained until the latter part of 1867. From that time until 1875 his time and energies were directed to various enterprises, mostly real estate transactions, but his love for plants and flowers induced him to start in the florist business again in the winter of 1875-1876, and ever since he successfully conducted the same with the aid of two of his sons, who will continue in the business. Besides his widow he leaves three sons and three daughters, all grown up, to mourn his unfortunate departure. K.

Chicago.

At the last meeting of the Florist Club Mr. John Thorpe was the guest of the evening. The proper method of growing chrysanthemums for exhibition was a question brought up, and in response to a request Mr. Thorpe favored the members with his views.

He saw no necessity for a rule requiring all plants to be grown to single stems, and believed that as more showy exhibition specimens could be produced by growing two or more plants together in the same pot, it would be well to do so, as the object of the exhibition was to please and interest those who attended it. The main point was to have the rule well defined and to suit the majority. If the majority of the growers believed in single stemmed plants, then make the rule that all on exhibition be grown to single stem, and if they did not, then leave the question open, and let each one follow his own inclinations. Referring to the queries by B. on page 842 of the last issue of the FLORIST, he said that the aim should be to produce plants which combined the largest number of good points—good sized, clean foliated plants, with a good showing of well colored flowers of good size. He did not believe in sacrificing any one of these points to strengthen any of the others.

The question of selection of judges to award the prizes on floral arrangements at the fall exhibition was also brought up and further discussed. The preponderance of opinion as expressed by those present was in favor of adopting the plan pursued last year, namely, the selection of a dozen or more well known lady buyers of flowers, the names to be suggested by those who competed. One objection to the ladies was stated to be that if one of their number who happened to be specially fond of some particular flower should find that flower in one of the arrangements, she would be prejudiced in its favor, regardless of the merits of the

arrangement. But it was admitted that with so large a committee the effect of such personal preferences would be minimized. Another objection was that ladies who belonged to a certain society "clique" would be biased in their judgment by that of the leader of that particular clique. But this is almost entirely avoided by making such provision that the ladies may cast their ballots separately, as they arrive at the hall during a stated length of time, and thus act each on their own individual judgment without meeting the other ladies. One strong point in favor of the lady judges is that they consider their selection a compliment, and at once interest their friends in the show. And their connection with the affair is of decided value in an advertising way, for the newspaper boys at once spread themselves when they learn that ladies from the highest social circles are to act as judges. In view of the light attendance at the meeting it was decided to make the matter the special order for next meeting, when opportunity will be given for further discussion, and a vote will be taken upon the question.

Moses Malsh, who about a month ago started at 115 State street with the avowed intention of making it so unhealthy for the other florists that they would soon be compelled to close their business, just a month ago and then "moseyed" out. A large and varied assortment of placards offering flowers at "cut rates" can now be secured at a bargain.

Tom Rogers has started up again in the basement underneath his old stand on Wabash avenue.

Mr. H. B. Beatty, of the Oakwood Rose Gardens, Oil City, Pennsylvania, has been in Chicago for over a week past, confined to his room by illness. He was at the Sherman House, but in order to insure the quiet necessary to his recovery, Mr. J. D. Reynolds has taken the patient to his home at Riverside, where he is rapidly gaining strength.

Mr. John Thorpe arrived in the city Wednesday last week. He spent the following Sunday at La Salle, Illinois, as the guest of Mr. J. C. Vaughan at his summer home. He left for New York on the 16th.

The work of the body of horticulturists in protesting against Walter S. Maxwell as chief of the horticultural department of the World's Fair, as noted on the first page of last week's issue, was ably supplemented last Friday by a committee from the Seed Trade Association, consisting of Messrs. J. C. Vaughan, of this city, F. T. Emerson, of Omaha, and James Currie, of Milwaukee. They kept hard at work up to the time of the meeting of the local directory, and did yeoman service in the cause.

August Jurgens, of Havelock, was married June 12.

E. E. Parsell, of Lake Forest, is building three greenhouses 20x100. They will be devoted to cut flowers.

Trade last week was active. Commencement exercises at the various colleges and seats of learning have already created a brisk demand for flowers. Outdoor stuff of all kinds is coming in freely. Jacques and other roses from the open ground are being received in large quantities. Jacques particularly are very fine this season. Sweet peas are becoming very plentiful. These flowers are still grown under glass. The out-of-door crop is not expected for three or four weeks yet. The oriental poppy is here in all its glory, a flower that sells readily in

our market. Of peonies there is a glut. The demand for this flower is falling off, and prices are way down. With few exceptions the rose stock under glass is very poor. There is hardly a rose that isn't sadly mildewed.

The banquet given by the World's Fair management to the diplomatic corps visiting the World's Fair city last Saturday at the Auditorium was a swell affair. Thousands of roses were used in this decoration. Several large weddings and receptions are on for this week, notably the reception of the Philadelphia Clover Club at Kinsley's on the 18th.

Some time since Mr. Charles Reissig leased his greenhouses at Riverside to Mr. M. F. Kyle. He has now disposed of his city store to Mr. P. J. Hauswirth, who has been with him for many years, and will retire entirely from the business July 1. Mr. Reissig is now 73 years of age. He was one of the pioneer florists in Chicago and has been actively engaged in the business here for over a quarter of a century.

New York.

Dards had an elaborate order for the West Point cadets at the Murray Hill hotel Friday. The dining room and four adjoining rooms were handsomely decorated. There were two tables, seating sixty at each. A large circle of palms surrounded each table; in the center of one there was a circle ten feet in diameter, in which was mounted a large cannon made of red carnations festooned with white roses. From the mouth of the cannon shone three electric lights of the national colors. The second table was a duplicate of the first, except that the center piece was a field cannon made of white carnations festooned with small American Beauties and hybrids, surrounded by small palms and ferns.

Mr. Dards had two other large orders at the Murray Hill last week, one for the wedding of Miss Lockwood and the other given by the Princeton College Base Ball Club, the entire decoration being yellow, the club's colors.

Fleishman had the decoration for the wedding of Miss Anthon. The chief feature was the decoration of the ceilings and side walls, which were entirely covered with bougainvillea. In the parlor, where the wedding ceremony took place, Mr. Fleishman made an alcove ten feet high of adiantum ferns in pots, over which was a canopy made of smilax and bougainvillea, which had a beautiful effect. The other rooms were profusely decorated with spring flowers, such as white peonies, sweet peas, and corn-flowers.

The Florist Club held a very lively meeting last Monday evening. Mr. Dean, chairman of the committee on the revision of the by-laws, made his report, and after an animated discussion on each section they were adopted as corrected. At this meeting officers were to be nominated for the ensuing year, but it was decided to have the present officers continue until January 1, when the new by-laws would go into effect. It was also decided to make an assessment of \$1.00 on each member to make up the losses caused by the recent show. The secretary made his report, showing that there were 106 members in good standing at the present time.

At the Bowling Club Monday, Mr. Theodore Roehrs again captured the medal with the score of 176. This is the sixth time Mr. Roehrs has won it, so it is impossible for anyone to get it from him.



FLAT BASKET

We received a call during the week from Mr. G. Berterman, of Indianapolis, and Mr. Chas. Young, of C. Young Sons Co., St. Louis, Mo. Mr. W. L. Trumppove, an old New York boy, who has been in Pittsburgh for three years with A. M. & J. B. Murdoch, also visited us during the week. Mr. T. is starting in business for himself at 38 5th avenue, Pittsburg, and has the good wishes of all his friends for his success in his new departure.

Charles W. Farley, who for many years was connected with Thorley and of late with Scallen, died Saturday, June 6, of consumption. Mr. Farley was considered one of the best artists in the business and as a floral decorator could not be excelled.

Trade during the week has been very quiet. The quality of the flowers coming in has been very poor, and the average prices obtained very low.

JOHN YOUNG.

Flat Basket.

The illustration shows a very pretty way to send flowers, and especially so if they are fine, long stemmed roses, that they may be put in water as soon as they are received.

The dark roses are specimens of that magnificent rose, the Ulrich Brunner, whose admirers are not far wrong when they say that for winter forcing it is the finest rose in cultivation. The light roses are Mrs. John Laing and Mme. Gabriel Luizet, who are rivals worthy of each other. Those devoted to the Laing contend that it is more symmetrical when it opens, and that it has not the thorns of the Luizet. But there is a certain grace

about the latter when it does unfold its petals that the Laing does not possess and, too, under certain conditions it has a fire that is peculiarly its own.

Speaking of roses in this light makes me think of other beautiful ones. Who has seen the Anna de Diesbach in her greatest beauty, and felt that she did not deserve the honor of being called "the glory of Paris?" Baroness Rothschild: I wish that all titles were as worthily bestowed and maintained with the same dignity. Captain Christy: I should like to make him a general. General Jacqueminot should be made a field marshal. Paul Neron is big enough to know better. Her Majesty "The Queen, God Bless Her." I guess is more admired in England than here. American Beauty: "When you're good you're very, very good, and when you're bad you're horrid." Marechal Niel is always welcome. Souvenir de Wootton, named after the home of Mr. George W. Childs, one of the finest in the United States, situated at Bryn Mawr, Pennsylvania, about ten miles from Philadelphia. Mr. Childs is president of the Pennsylvania Horticultural Society. His gardens and plants are presided over by Mr. John Hughes. La France: I think the popularity of this beautiful rose is on the wane. Madame Hoste and Duchess of Albany have so recently made their debut that it is hardly fair to criticize, both having many good qualities. The latter, however, is very fine with us now, holding its shape and color, and lasting much better during these warm days than the old favorite, La France.

The Bon Silene, Isabella Sprunt, Safrano and Cornelia Cook we remember with

great pleasure, but we have something very much better in their places, such as Papa Gontier, Madame Hoste, Sunset, and Bride. Speaking of the Bride reminds us of her sister, Catherine Mermet, who deserves all the praise that is bestowed upon her. Still, she will have to look to her laurels when her younger sister, Waban, makes her debut. I have seen her, and assure you she is very beautiful. Niphetos, Souvenir d'un Ami, and Souvenir de la Malmaison, I wish we might see more of, but, like the grand old Marechal Niel, they are put on the shelf by many, and marked unprofitable. The same is said of moss roses. Somebody is to blame for this; either the grower has not the courage to grow or the dealer brains enough to sell this beautiful rose. If properly handled there should be a good demand for these roses.

We started by saying something about arranging a basket of flowers, but got off the track.

H. H. BATTLES.

The American Pomological Society will hold its twenty-third session at Washington, D. C., September 22 to 25 next. The official programme will be issued at an early date.

When remitting small amounts by check, please add ten cents to the amount of the check to pay the exchange on same.

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

June 23-24, Boston.—Rose and strawberry exhibition Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

June 29, Hamilton, Ont.—Rose show Gardeners' and Florists' Club of Hamilton. H. Browne, Sec'y.

July 22-23, Toronto, Ont.—Flower show Toronto Educational District Agricultural Society. J. P. Edwards, Sec'y, 146 Wellington St. West.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society. Thomas Vair, Sec'y.

September 8-10, Hartford, Conn.—Fall exhibition Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 2-8, New York.—Chrysanthemum show Madison Square Garden. J. W. Morrissey, Sec'y, Madison Square Garden.

November 3-5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 3-6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club. W. H. Ellis, Sec'y, 133 Mason St., Milwaukee.

November 3-7, Detroit, Mich.—Chrysanthemum show Detroit Florists.

November 4-6, Wooster, O.—Exhibition Wooster Floral Club. W. A. Porter, Sec'y.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y.

November 10-12, Pittsburg.—Chrysanthemum show Pittsburg and Allegheny Florists' and Gardeners' Club. G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society. James Galvin, Sec'y.

November 10-12, Toronto, Ont.—Chrysanthemum show Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School, Toronto.

November 10-12, New Bedford, Mass.—Chrysanthemum show New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society. D. J. L. Farson, Sec'y, Horticultural Hall, Broad St.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago. James D. Reynolds, Sec'y, Riverside, Ill.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.

November 11-12, Worcester, Mass.—Chrysanthemum show Worcester County Hort. Society. Edward W. Lincoln, Sec'y, 5 Oak St.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society. Thos. Vair, Sec'y.

November 11-12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.

November 11-13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society. George D. Pratt, Sec'y.

November 11-13, Utica, N. Y.—Fall exhibition Utica Florists' Club. J. C. Spencer, Sec'y.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society. Chas. Wise, Sec'y, Third and Prytania Sts.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club. Engene Cadmus, Sec'y, 1419 R St. N. W.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

November —, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.

November —, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society. Wm. Gamme, Sec'y.

November —, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society. Thos. E. Meehan, Sec'y.

November —, New Haven, Conn.—Chrysanthemum show New Haven Chrysanthemum Club.

IN THIS issue we make an addition to our list of coming exhibitions that will, we believe, very materially enhance its value. To the data already given we have added the name and address of the secretary of each organization giving an exhibition, thus making communication with each one as easy as possible. We anticipate that these addresses will be found a great convenience by all interested.

A copy of the premium list for the fourth annual chrysanthemum exhibition of the New Bedford Gardeners' and Florists' Club, to be held November 10 to 12 next, has been received. Copies may be had on application to the secretary, Mr. Geo. C. Bliss, 34 Arnold street, New Bedford, Mass.

A. T.—The poppy of which you send a flower is *Papaver orientalis*. The one you send is the type and comes true from seed. Some forms other than the type have been disseminated and in order to hold them true they must be propagated by division.

THE NOMINATION of Mr. Walter S. Maxwell as Chief of the Hort. Bureau of the World's Fair has been rejected by the Local Board of Directors. Director General Davis then placed in nomination Gen. N. P. Chipman, of California, saying that this position had been promised to that state. The nomination was immediately confirmed. Gen'l Chipman lacks the confirmation of the National Board of Control and it is said a fight will be made on him in that body. The determined stand made by the horticulturists of America has won for them this fight. The local board made up of business men of the highest character and patriotism have said to the Director General, the rights of the horticulturists shall be recognized and political "pull" is not the sole requisite for the horticultural department. Gen'l Chipman has the endorsement of the well known San Jose nurseryman, Mr. John Rock. We trust the organization of this department will soon be made. At least six months' valuable time has been unnecessarily lost.

Since writing the above General Chipman has been rejected by the National Board of Control. The name of Commissioner Forsyth has been suggested. He is the Californian who originally proposed Mr. Maxwell, and if chosen would probably be the head of the department only in name. We do not believe the local board would endorse him.

IN THIS ISSUE Mr. Matthews resumes his articles on color contrasts in the arrangement of flowers. We trust that none of our readers will fail to profit by the valuable information they contain. We all need instruction in this line, and there is none more competent to teach us than our correspondent.

IN THE advertisement of Jos. E. Bon-sall on page 850 of last issue a bad figure 1 did not show up properly and made Mr. B. offer his smilax at 15 instead of 15 cents. He writes that this misnotation is causing him some little trouble. We trust this explanation will put matters right.

YOU CAN give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

THE SALES of flowers for decoration day were this year generally much larger than ever before. Reports from all sections indicate universal satisfaction with decoration day trade.

THE wholesale trade in greenhouse stock about New York this season is reported as lighter than usual.

WHEN sending us small amounts in postage stamps, please select those of the 2-cent denomination.

Watering Chrysanthemums.

Is it advisable to sprinkle chrysanthemums in the middle of the day, when the sun is hot, whether the plants are grown under glass or out of doors?

A SUBSCRIBER.

[When plants are dry, then is the time to water them, sun or no sun. Often times though plants flag or wilt from too much water. Remember that it is always difficult to diagnose a case without seeing the patient.—J. T.]

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DRAECNA INDIVISA and VEITCHII,
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Send for wholesale price list and descriptive cata-
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" Mermets and Brides.....	4.00 @ 6.00
" La France, Wootton.....	1.00 @ 5.00
" Jacqs.....	5.00 @ 12.00
Carnations.....	.75 @ 5.00
Harriet.....	2.00 @ 4.00
Valley.....	4.00 @ 6.00
Stocks.....	2.00 @ 4.00
Deutzia.....	2.10 @ 4.00
Smilax.....	15.00 @ 20.00
Asparagus.....	50.00 @ 60.00
Adiantums.....	1.00 @ 2.00

NEW YORK, June 15.	
Roses, Beauties.....	3.00 @ 5.00
" Bon Silence.....	.50 @ 1.00
" Perles and Suresis.....	1.00 @ 3.00
" Niphetos, Souvs.....	1.00 @ 2.00
" Mermets, Brides, Cousins.....	1.00 @ 3.00
" Vasevilles, Hostes.....	1.00 @ 3.00
" La France, Albany.....	2.00 @ 6.00
" Wootton.....	1.00 @ 2.00
" Jacqs.....	1.00 @ 2.00
Valley.....	1.00 @ 2.00
Carnations, long.....	.50 @ 1.00
Mignonette.....	.50 @ 1.00
Smilax.....	.50 @ 1.00
Adiantums.....	.50 @ 1.00
Wootton.....	1.00 @ 2.00
Panomics.....	2.00 @ 5.00

PHILADELPHIA, June 15.	
Roses, Bruners.....	15.00 @ 20.00
" Beauties.....	15.00 @ 20.00
" Laines.....	15.00 @ 20.00
" La France, Albany.....	5.00 @ 10.00
" Mermets, Brides.....	5.00 @ 10.00
" Perles, Wootton.....	5.00 @ 10.00
" Hostes, Wootton.....	5.00 @ 10.00
Valley.....	5.00 @ 10.00
Carnations.....	5.00 @ 10.00
Adiantums.....	5.00 @ 10.00
Smilax.....	15.00 @ 20.00
Sweet peas.....	1.50 @ 2.00

CHICAGO, June 15.	
Roses, Am. Beauties.....	10.00 @ 15.00
" Jacqs.....	5.00 @ 8.00
" Mermets, La France.....	5.00 @ 8.00
" Brides.....	5.00 @ 8.00
" Niphetos.....	5.00 @ 8.00
" Perles, Gontiers.....	5.00 @ 8.00
" Bon Silence.....	.75 @ 1.50
Carnations, long.....	.50 @ 1.00
Carnations, short.....	.50 @ 1.00
Valley.....	5.00 @ 8.00
Callas.....	10.00 @ 15.00
Smilax.....	15.00 @ 20.00

WM. J. STEWART,
Cut Flowers & Florists' Supplies
— WHOLESALE —
67 Bromfield Street, BOSTON, MASS.
Mention American Florist.

N. F. MCCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES.
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carna-
tions always on hand. Return telegrams sent
immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.

**WHOLESALE CUT FLOWERS AND
FLORISTS' SUPPLIES.**
THE WISCONSIN FLOWER EXCHANGE,
125 Maenn Street, MILWAUKEE, Wis.

H. SCHULTZ & CO.,
117 to 123 Market St. - CHICAGO.
MANUFACTURERS OF
Paper Boxes for Florists.

Special long stem Rose Boxes,
one 10 x 1 x 3 inches.
" 11 x 3 x 3
" 12 x 3 x 3
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The Seed Trade.

SEED TRADE ASSOCIATION.

F. BARTELDSE, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., June, 1892.

The Convention.

The ninth annual session of the American Seed Trade Association, which convened at the Burnet House in Cincinnati last week was more fully representative of all sections and branches of the trade than any of recent years. Ten new members were elected. Several matters of importance were considered and disposed of satisfactorily. A strong board of officers was chosen for the ensuing year and after a delightful ride through the suburbs and Spring Grove cemetery the party, 75 in number, dined at Kennedy Heights. Messrs. McCullough, Critchfield and Parvins Sons as a local committee were entitled to much credit.

In addition to those named last week the following were present: J. G. Peppard, Kansas City; W. A. Heath, with A. Dickinson & Co., Chicago; E. W. Burt and F. Claire, Philadelphia; W. H. Marcon, Sec'y Steele Bros. Co., Toronto; F. A. Stecher, Rochester.

Officers for the ensuing year were elected as follows: F. Barteldse, Pres.; Z. De Forest, Vice-Pres.; E. B. Clark, 2nd Vice-Pres.; A. L. Don, Sec'y and Treas.; Frank T. Emerson, Ass't Sec'y; Executive Committee—Robert George, J. E. Willard, S. F. Leonard, D. I. Bushnell; Albertus N. Clark.

Hartford, Conn., is the next place of meeting.

Report of Committee on Fraudulent Importations.

Your committee believe the following facts exist:

1st. That table beet seed is imported as mangrel wurzel or as sugar beet free of duty.

2nd. That cauliflower and other valuable seeds are invoiced under fictitious names at lower prices than their actual cost.

3rd. That cauliflower and other expensive seeds subject to duty are received through the mails free.

4th. We believe the practice exists with some foreign houses of executing duplicate sets of invoices with intent to evade just legal duties.

We recommend that the Secretary of the Treasury be requested to instruct the proper officers at all ports of entry to draw from all seed importations whether free or dutiable such samples as they may deem best for test at the nearest available Government Experiment Station.

Also that your committee be authorized to consult with the Secretary of the Treasury or other government officers on the subject of the importation of seeds by mail to evade duty or other fraudulent practices and take such action as they may deem best and practical.

There has also grown up a system of buying seeds on contract from foreign growers for delivery at a future date, on which duty is paid at contract prices in lieu of market price at time of shipment as is required by the United States statutes.

We recommend that the attention of the Secretary of the Treasury be called to this fact and he be asked that reappraisal be made in accordance with the law in such manner as may be acceptable to the department and just to all con-

cerned and we pledge the assistance and support of The American Seed Trade Association to this end.

Signed:

WILLIAM MEGGAT, }
W. P. STOKES, } Committee.
E. V. HALLOCK, }

This very important report with recommendations was unanimously adopted and constitutes a record of which the association may well be proud.

Mr. W. ATLEE BURPEE is in Spain.

MAJ. CHAS. P. BRASLAN is in California.

Mr. GEO. S. HASKELL is at Hot Springs, Ark.

Mr. C. L. ALLEN, with Mr. F. E. McAllister, has returned from Europe.

Mr. CHAS. HENDERSON and Mr. A. M. Kirby sailed for Europe about June 1.

Mr. J. W. ELDERING, import agent, has located at 78 Barclay street, New York.

THE FIRM NAME of A. D. COWAN & Co. will be changed to Weber & Son about July 5.

Mr. HENRY M. STANLEY will write three articles for the *Mayflower* on the flowers of Africa.

MR. ROBERT GEORGE thinks very highly of the Gold Coin sweet corn—for tinner purposes.

The long white summer radish known as Chinese and as Celestial is having a large sale.

MR. HARRIS, for years with J. M. Thorburn & Co., will retire from business and take up his residence in England.

R. W. CLUCAS, lately with Peter Henderson & Co., has accepted a position with Pitcher & Manda as manager of their seed department.

THE SEEDSMEN'S LEAGUE will hold their annual meeting next month. Mr. Oliver Landreth is president and Mr. M. B. Keeney secretary. Members interested should make a note of it.

MR. B. E. BEEMER, who has been foreman and general manager for Mr. S. W. Robbins, of Wethersfield, Conn., for the past six years, is leaving him to take a similar position with Mr. J. G. Batterson, Hartford, Conn.

Buffalo.

Wm. Scott shows a goodly collection of orchids in his houses, numbering some 500 plants. He has some gloxinias coming on that are very fine.

The local supply of indoor roses is on the wane decidedly and quality failing. Carnations have been in over-supply since Decoration Day, the buyers having matters their own way.

The bedding, box and vase trade in plants this spring bids fair to eclipse all past records. The heaviest growers are now buying up odd lots and all the good stock will be wanted, the space devoted to bedding stuff scarcely being increased in proportion to the growth of the city and its population.

As the last meeting of the Florist Club, the secretary was directed to suggest to the Toronto Club the propriety of the latter extending an invitation for a meeting of the clubs at the time of the convention, as has been suggested in these columns. L. B. D.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By professional French florist. Best references. Apply to
178 W. Randolph St., Chicago.

SITUATION WANTED—By journeyman in the greenhouse; 6 years' experience in all branches; good references. Please send address.
X, care American Florist, Chicago.

SITUATION WANTED—By a young man; single; well posted in growing roses; good potter and propagator; am competent to take full charge of place. Can furnish the best of references. Address
J. C. care American Florist, Chicago.

SITUATION WANTED—By a first class florist; German, in a private or commercial place; 10 years' experience; understands plants thoroughly. Best of references. Address
P. H. G., Postoffice Box 11, Riverside, Ill.

SITUATION WANTED—By an allround, well experienced grower; a permanent situation to take charge of nursery. Has been 14 years in the trade. Particulars to SCHMITZ, care D. Leonard, 262 E. 19th Street, New York City.

SITUATION WANTED—An experienced rose grower, used to taking large cut flower establishments, wants a good situation as soon as possible. References of the best, such as Craig & Co., Phila., and others. Address L. B. care A. M. F.

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News Notes.

ROCHESTER, N. Y.—Mr. J. B. Keller will start on an European trip next week.

SALEM, O.—Joseph E. Bonsall is now completing five new houses, each 16x120, all to be devoted to the growth of smilax.

MILWAUKEE.—Mr. G. Volk will start from New York on the 17th inst., on a two months' pleasure trip to Europe.

DECONOMOW, Wis.—The greenhouses of Herman Buechler were badly broken up by hail on the 3rd of June. Mr. Buechler wisely had insured his glass in the Florists' Hail Association and he will be able to replace his glass without drawing upon his spring earnings.

KANSAS CITY, Mo.—To the Coates House has been added a conservatory and floral store building 40 x 150 feet, which has been leased to Probst Bros. Floral Co. for 10 years on favorable terms. This when completed will make one of the most attractive sales and show rooms in the country and this enterprising firm is to be congratulated upon securing so favorable a business location.

PATERSON, N. J.—The young carnation stock in open ground is looking well and making rapid growth. In fact considering that we were very late in planting and the season generally backward their present advanced condition is somewhat remarkable, but the weather has been very favorable and rain coming about right every time has caused a steady growth from the start. We are now stopping many the second time. I think on the whole the prospects were never better at this time of the year.

WHERE can I obtain the seed of "bedding or tufted pansies"? M.

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The Nomenclature Committee will meet in session at the Queens Hotel, Toronto, at 9 A. M., the day before the S. A. F. convention takes place in that city next August.

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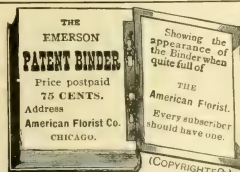
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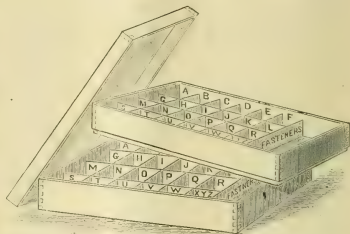
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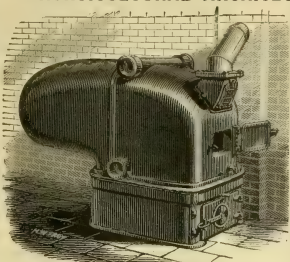
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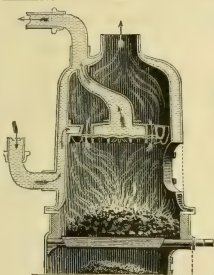
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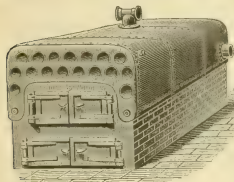
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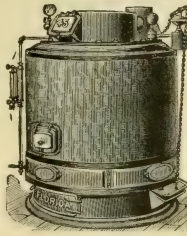
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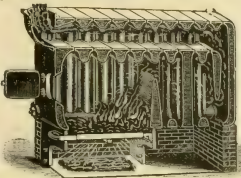
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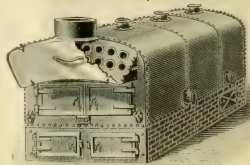
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Vol. VI.

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No. 160.

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THE LATEST newspaper statement concerning the chief of the horticultural department is that in the event of the failure of the local board of directors to confirm Mr. Forsyth no further nomination will be made from California. Another statement is made that the horticultural department will be annexed to the agricultural bureau.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Color Arrangements for Wedding Decorations.

There is to be a wedding, and we are all on tiptoe with interest and glad sympathy. We are in the very month for weddings!

June with its roses—June
The gladdest month of our capricious year,
With its thick foliage and its sunlight clear!

We associate everything that is bright and glad and beautiful with the wedding—or, better, with the bride! She shall have flowers in plenty, banks and bowers, and her pathway must be strewn with them! But first, let us see what we can do about using the flowers in the best way, and arranging them so they shall produce a delicate and dainty color effect. White flowers we shall use in plenty, but even these have their color effects, and a glance at The Bride rose shows us at once the presence of some yellow! Then we must be careful that this lovely rose shall not be injured by any pure white flowers coming too near. And when we employ colored flowers we must be particular in our choice, and use dainty and delicate colors. There are roses whose petals are tipped with blushes, these were made for us to use; for instance, the Madame de Watteville and Madame Cusin. Then we have blushing pinks and rosy paeonies, dainty sweet peas and rose-tipped pond lilies, delicate Mermet roses and luxurious La France roses, in fact, there are all the flowers we wish for ranging through the pink tones, right at our elbows.

But we are running on too fast. First let us start with some single idea, which shall be at once simple and beautiful. We should choose between some delicate symphonies of color. Let it be a symphony in white and rose, or cream and gold, or pink alone or white and pale yellow. Here we have some good starting points, besides those flowers mentioned above; we have daisies and buttercups, (I wish the florists would learn to love these beautiful wild flowers as the poets have), golden coreopsis, yellow centaurea, the iris, Maréchal Niel and Perle roses, yellow nasturtiums, pansies, and a host of other dainty yellow favorites, which only need our artistic touch to form themselves into bowers and festoons of gold and silver.

We have spoken a while ago of set emblematic forms into which flowers are crowded "en masse;" let us consider the matter more fully now, especially with reference to wedding decorations. Emblems are perfectly right and good in their place, but I think we need some sweeping reforms in their style and use. Those wire framed bells, crosses, pillows, lovers' knots, and such like things can certainly be well replaced by something nearer to the genuine article. By all means use the cross, the bell, the anchor, the lover's

knot, and the gateway! But use the real thing as nearly as possible, and turn it into floral decoration. Tie your true lover's knot tight, but with real *hempen rope*, gild it, silver it with bronze paint if you wish, and twine it lovingly with Brides or Mermet, but don't make it up entirely of flowers. Use the basket, fill it with roses, (of one kind, if possible), make a rustic gate, twine it with daisies, gild your cross, hang on it your white roses, cover the altar cloth with flowers, with even *loose rose leaves* for the sake of color effect, but do not try to make cloth out of roses, rope out of carnations, bells out of daisies, and wooden gates out of a mass of conglomerate blooms! The very words printed out in cold type, "Silver Bells," "Silver Lamps," suggests a ring and silvery gleam which flowers in such shapes are doomed to convey. The florist ought to be supplied with cheap and good metal bells and lamps, say in aluminum, made especially for him to use and decorate. A pretty hanging lamp, however plain, in silver, lighted and smothered in not too many Mermet or Niphetos roses, which may be garlanded and allowed to hang down a space below the lamp, simply *must* look pretty. A silver bell, whose metal is perforated to receive the constructing threads of its floral decoration, if half covered with flowers, must have more of the "true ring" to it than a clumsy, solid mass of carnations, which we guess was intended to look like a bell.

Now we come to our color effects. We may always use our yellow and white flowers, mixed together or grouped in golden or white masses, not forgetting the green foliage. Buttercups are rich, with an absolutely pure golden color; burnished gold, too. Cannot we use them often where we do? Make a golden gate for the bride to pass through; leave only enough of the *real* rustic woodwork in sight to allow the usher to handle it with confidence and faith in its reality and security. Tie your cream color and gold color ribbon to the latch. Tie your posts with a profusion of white flowers, and you cannot fail of success in color effect. Change the scheme of color to pink and white, if you please, but be sure your *pink* color is only a suggestion—a blush! And allow the white to be dominant. If the bridesmaids are clad in rose color, do not forget the green leaves and the ribbon for their pink bouquets. Use as far as the law will allow it the Watteville rose, its dainty blush is a treasure for the florist in his wedding decoration work. If there is a chance to use some pans of water on the floor to hold white or pink pond lilies, seize it, and bank the pan edges with moss and little flowers; tie your lilies, plenty of them, with a natural pad or two here and there, lie placidly on the surface of the water! Use your pans in the room corners, where you can

trail or otherwise arrange your green decorations high up behind. There is plenty of spirea to use for banks or borders, and we have also lilies in plenty which can be grouped in graceful masses where we have need of some good decoration lines on the perpendicular. Color we need and must have; an all white effect is monotonous. Pink carnations will come to the rescue now, the paler they are the better, mass them where and how you please, but do not pack them; allow no pure white flowers to come near them, but choose rather the cream or yellowish white blooms for their companionship. Supposing that we have an arbor effect at the end of the room where the happy couple are to stand, let us endeavor to concentrate our color at a point central in the design and gradually work outward to white alone.

Garlands of flowers of quite white at one end and gradually running into a decided pink at the other will produce a charming effect when used in concentrating lines. There are splendid opportunities for pink and white color effects in the use of the various types of peonies and rhododendrons; whenever we find a big vase let us use it with these showy flowers in making up a good background. Be careful about the pink color and if there is any approaching the purple in tone let it go or else isolate it in some forgotten corner.

And let us stick closely to our idea of a symphony of color, even use light, in tone with our color effects, pink or yellow or white, as the case requires; nothing is prettier than this subdued and color tinged light. We will consider later some specific pink combinations, and the effect of light on flowers of this color.

F. SCHUYLER MATTHEWS.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XXIX.

DUTIES OF AN EXECUTOR.

So old Miss Bloomfield is dead, is she and has named you one of her executors? Why, I wasn't aware that she was anything more than one of your customers.

Strange clause in the will is there? Let me hear what it is. "Five hundred dollars to be expended by my executors in beautifying my burial plot with an arbor vine hedge, shade trees and flowering shrubs."

Do I think such a clause will stand? Most assuredly, and I think the old lady made a wise selection in naming you as one of her executors, for she had the satisfaction of knowing that the matter would be attended to properly.

Like to know something about your duties would you? Well, I've no objection to talking the matter over after you have finished rattling those flower pots.

The office of executor is not one likely to afford you any very great satisfaction, for no matter what you do some one will be sure to find fault. However, this is a small estate and you will be able to execute the trust without much difficulty, particularly as the other executor is her lawyer and he will attend to the routine duties, but that fact will not relieve you from responsibility.

No doubt you were chosen for the reason that the testatrix wanted to make sure of having her burial plot beautified according to her directions and she had often conversed with you about it. Old people often set their minds so firmly upon some small matter of this kind that it assumes great importance in their eyes.

The first thing to be done with a will is to present it to the proper officer for probate. That is proof and acceptance as the last will and testament of the deceased. Upon such presentation citations will be issued to the interested parties to attend on a designated day and file their objections if they have any. If none are filed it goes to probate and you receive a certificate setting forth that you are one of the executors. But before this can be done you must qualify. That is, accept the trust in writing. You may or may not accept; it is not obligatory upon you.

As a general rule executors can not be compelled to give any bonds. It is to be supposed that the testator reposed perfect confidence in you upon appointing you.

You must not attempt to do any act in your capacity of executor until the will has been probated. But there is usually one exception to this: You may pay funeral expenses without waiting for the probate.

The next thing after proving your will is to ascertain how much personal property the deceased left. This is done by means of appraisers, two or more officers appointed by the probate judge, who set a valuation opposite each item.

You ask: What about the real estate? An executor has nothing to do with real estate, unless he is charged to turn it into money and distribute it. Of course there may not be personal property enough to pay the debts of deceased and in that case there must be a sale of real estate to pay them. Well we will suppose your inventory has been made. Now you know exactly what property you have to account for. True some of the bonds, corporate shares, notes of hand, due bills, chattel mortgages or other evidences of debt may depreciate in value through no fault of yours. You are only to be held responsible for actual returns, but you must have a voucher for every item you expend, except possibly small current expenses may be set forth without vouchers. In some states every item of \$20 and above must have a voucher.

An executor must regard all debts due the deceased in the same light that he would if they were his own and he must proceed to reduce them to cash. But there is one difference: He must not asin his own business accept less than the face of the note, bill, bond, etc. without the permission of the court first obtained.

The moment cash to any amount comes into your hands you should at once have practicable proceed to put it where it will draw interest, but this cannot always be done.

After six months have elapsed it is customary to advertise for claims against the estate and you may exact that each creditor shall swear to the exactness of the account presented. A careful executor never pays any accounts except funeral expenses, probate fees and possibly physicians' charges at the last illness, until he has advertised for six months and knows exactly what his estate owes.

Some debts must be paid in full, no matter how the general indebtedness may suffer. For instance, debts due to the United States, to the State, for taxes or what not. Then you must, take up any preferred liens, such as have a right to foreclose. All liens are to be paid according to priority in point of time. You will need the services of an honest lawyer in a matter of this kind. Finally you will be faced by the general indebtedness of the deceased. If there be

money enough all must be paid, if not then you must pay *pro rata*.

In making up an inventory, it is customary to omit all heirlooms, such as family pictures, medals, trophies, etc. These may not be sold to pay the debts of deceased.

It is always dangerous to make an advance to a legatee, unless you are certain that the debts will not foot up more than the assets. In case of making an advance, by which I mean pay a bequest before the year or year and a half is up, it is the usual thing to deduct a rebate of interest.

Bear in mind that an executor has no right to make a promissory note, go on a bond or incur any liability as executor. If he does, he simply exceeds his powers and becomes personally liable.

Upon settling up the estate you are entitled to a discharge. The court usually appoints someone to go over your accounts and make a report. The final decree will authorize the payment of all your charges together with your commission for handling the funds. This commission is small. The duties of an executor are largely a labor of love, especially in small estates.

From beginning to end make a practice of keeping debit and credit accounts. All legatees are proverbially hard to please, but well kept accounts can't be spoiled.

UNCLE BLACKSTONE.

The Allegheny Park Conservatories.

We present in this issue two groups of views in the conservatories of the park at Allegheny City, Pa., where the genial Wm. Hamilton is superintendent. We are indebted to Mr. John Thorpe for the photographs from which the views are engraved, and also for the following description:

"The conservatories were donated to the Allegheny City Park by W. H. Phipps Jr. Their construction cost \$60,000. There are frequently over 4,000 visitors on Sunday afternoons, and these visits are one of the greatest features of the Alleghenian's life."

"In group number 1 the view at the upper left hand corner shows a group of palms. *Areca lutescens*, a plant twelve feet high, occupies a position to the right. In the foreground are various other smaller plants. The divided fronds on the extreme left are *Sabal Adansonii*, a plant twenty feet high, with twelve fronds."

"In the upper right hand corner is seen a magnificent plant of *Cycas circinalis* with seventy-five fronds; a fine plant of *Pandanus utilis* is at the left, as is also a portion of the end wall covered with *Clorodendron Balfourii* occupying a space of 35 feet in width and 16 feet high."

"The tall palm in the lower left hand view is *Cocos plumosa*, twenty-seven feet high, at the back of which is a *Cardiodynia* nearly ten feet high and six feet in diameter."

"At the lower right hand corner is a view of one of the aquatic houses, 60x40 feet, in which can be seen *Vallisneria spiralis*, growing in all her glory. The largest of the leaves were six feet and three inches in diameter October 20 last."

"In group number 2, the view in the upper left hand corner shows at the left a *Draena fragnans* twenty-seven feet high, with palms for furnishing. At the right of the walk are great bamboos twenty-six feet high."

"In the view at the upper right hand corner is seen a portion of a plant of *Draena fragnans* reaching to the roof,



VIEWS IN THE ALLEGHENY PARK CONSERVATORIES GROUP No. 1

with a fine specimen of carludovica in the foreground.

"In the lower left hand corner is seen a fine mass of *Philodendron pectusum* or *Monstera deliciosa*. Mr. Hamilton often has as many as twenty ripe fruits on this group at a time. This plant is also known as the 'Lyre plant'.

"In the lower right hand corner is a side view of various palms growing in most tropical luxuriance. It will be seen

there are seaforthias, kentias, cocos, latanias, and several other kinds."

Bignonia Venusta.

How seldom do we meet with this grand old greenhouse climber now; occasionally we see a half neglected apology of a specimen in a private conservatory, where it may or may not produce a dozen or two of its great clusters in mid-winter, and then be admired for the

grand, drooping orange yellow clusters of trumpet shaped flowers. The gardener in charge will then and there resolve to give the plant a better treatment another season, but when spring comes, with its various calls for work in every department, the good resolutions are pushed back, or forgotten entirely.

I remember the time when we considered this plant one of our best and most useful winter flowers, and I do not see

why it should not be used now in many a way for decorating, etc. But we gave it better care than I have seen it get lately in such places as referred to above. In April or May the old plants, which were planted out in different houses and trained along rafters, and in some cases along the ridge or on wires, got a severe pruning, leaving only a few of the strongest branches, all the rest was cut out. In a few weeks the new growth will have made enough headway to warrant a good feeding at the roots, and then all weak shoots are removed again, and only the very strongest left to grow and encouraged in every possible way. The plants require a very sunny and airy position, and if trained along the ridge near the ventilators the leading shoots will harden off sooner than those trained on the rafters, which will do so two or three weeks later, and as their flowering depends on this ripening, the latter will naturally bloom later. Several branches will come out from this year's young growth at nearly every eye along the whole length, and from the ends of these we get the bulk of our flowerheads, although the main branches will also flower. The clusters under ordinary treatment are composed of twenty-five to forty individual flowers and buds, each one of them when fully developed, measuring about five inches long, and one to one and a half inches across the mouth, of a deep orange yellow, and I know of no better ornament for a high greenhouse ridge than a plant of this bigonia in the winter months when in bloom, with all the lateral branches gracefully drooping and swaying, some two to three feet long, others longer if not tied up, everyone of them terminating in a large bunch of yellow curved trumpets.

The plant is not an unsightly one, nor is it very apt to harbor insects of any kind, unless it should stand in a rather close and warm house, which is kept rather dry, when red spiders would probably attack it, but frequent syringing will dispel them very soon. Cuttings of it will not readily root unless great care is bestowed upon them; bottom heat is indispensable, and damping off usually the final result. I have succeeded best in August with a hotbed frame, but layering gives better results, as it can be done at any time in the year and with any kind of wood.

J. B. KELLER.

ROCHESTER, N. Y.



South American Orchids at Home.

Cattleyas, the most beautiful of all American orchids, are found in the most varied positions, sometimes on the branches of giant trees in the virgin forests of the low ground, sometimes on the rocks and steep slopes of mountainous regions, at elevations ranging from 3,250 to 4,225 feet above sea-level. When they grow on trees, as is almost always the case in the low-wooded regions, it is usually on certain species of trees the bark of which seems to be particularly well suited to their requirements, and usually on the border of forests and in clearings, where daylight and sun can freely penetrate. Of all the trees I have seen in my travels, the gourd tree (presencia) seems to have a bark which is best adapted for the

growth of cattleyas and other epiphytal orchids, and this is the reason that the species is very valuable for cultivation in countries where orchids can be grown in the open air. There are in the South American States, hundreds of towns and villages, the population of which is employed in setting quantities of orchids on gourd trees. In the hottest parts of South America, almost every dwelling is surrounded with a little plantation of plantain, sugar cane, coffee, etc. Almost everywhere I found a few gourd trees, spreading their fine clear green foliage among these plants; very often the branches are literally covered with orchids of various genera and species. More than once I have seen sturdy schomburgkia mingling their long floral racemes with those of some beautiful cattleya, magnificent specimens partly shaded by the upper branches of this strange tree, which are themselves splendidly decorated with rodriquezia, ionopsis, small oncidium, and other less luxuriant plants. The gourd tree does not grow to a very great height (the highest I have ever seen was scarcely 23 feet high); therefore, it is admirably adapted for the culture of orchids in the open air. The vigor and health of plants which grow on this tree are marvellous. Its bark certainly contains some substance exceedingly favorable to the nutrition of roots and plants which grow upon it, as upon no other tree is the same vigor of roots and shoots observable.

In cattleyas, especially, I have always remarked the strength and size of the roots which the plants send out most abundantly in all directions, and which twine closely around the branches and trunk. I saw some years ago in the Botanic Garden at Demerara (British Guiana), a very fine collection of orchids, many of which were cultivated upon gourd trees. Several long avenues of these elegant trees were devoted to the growth of epiphytal orchids, and the plants seem to thrive well under this simple and inexpensive mode of treatment. The great secret or success in all systems of cultivation is to follow nature herself; I therefore recommend the pursuance of similar investment in our European glass houses.

The natural habit of the branches of gourd trees allows the light to penetrate everywhere, and they can be selected of whatever size is desired. On the borders of this "orchid garden" (at Demerara) are rocks, suitably arranged on which species which in tropical regions grow on rocks and in stony places can easily be cultivated. Cattleyas can be managed in two ways, as they grow upon rocks as well as upon the trees. Many times have I seen splendid plants of cattleya in the mountainous regions of America growing on enormous perpendicular rocks, where trees also grow and where the specimens are accessible only to the most intrepid of the natives, whose only support when gathering them is a strong rope fastened to the summit of the precipice. When cattleyas grow in forests they are usually found in more shady places than those which grow upon rocks, consequently the leaves and bulbs are always darker in color and less firm in texture; while on the other hand exposure to the sun colors the leaves and bulbs of the others with clearer hues and renders the substance of the foliage much firmer and stiffer.

Judging from what I have observed an excess of shade is far more injurious to cattleyas than excessive light. In a South American village I saw hundreds of cattleyas planted on the tops of walls of earth, exposed to the full sun and flour-

ishing splendidly. As regards size I do not believe that any other orchid attains to such enormous proportions as the cattleyas when placed in a favorable situation and at the same time have plenty of warmth and moisture. I have seen plants weighing more than 150 lbs. each, and bearing more than 300 bulbs. It must have been many years before, even in their native land, plants could have grown to such a size, and in this case it was only under conditions the most favorable to their development.

Cattleya eldorado grows only upon trees of medium size, with uneven and rough barks, on the borders of dense virgin forests, close to streams and usually in districts which are flooded during some months of the year.

In the same forests and under similar conditions are found *C. superba* and its varieties and *C. Holfordii* or *lutcola*, the latter generally growing low down on the smallest and lowest trees. *C. Gaskelliana* grows in high and mountainous regions usually on very tall trees of enormous breadth, in the thick forests on the sides of mountains. The different varieties of the Mossie group are found in high regions on tall trees on the borders of forests.

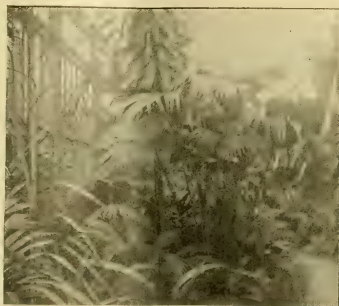
C. Mendellii and its varieties are seen on small trees and very often on rocks and the sunny slopes of precipices. *C. Percivaliana* always grows on high blocks of rock or on the slopes of mountains and sometimes grows perpendicularly on rocks in the very high regions not far from the habitats of odontoglossum. *C. Warocqueana* is only met with on trees of giant height in moderately high situations.—E. Bungeoeth in *Journal des Orchidees*.

Dendrobium Thyrsiflorum Var.?

This new and fine variety recently flowered in the collection of William W. Lunt, of Hingham, Massachusetts, and comes from a new locality. It differs from the type in having much longer bulbs, the foliage, also, being larger and very broad. Bulbs 30 to 35 inches long, and very stout. Leaves 7 to 8 inches in length by 3½ to 4 inches in breadth. This plant was imported about a year ago, and flowered this season from the imported growth, bearing two racemes of flowers 8½ and 9½ inches in length respectively, and bearing 35 and 38 flowers, some of the flowers measuring fully two inches across. The flowers are pure white, with very broad sepals and petals, thrown boldly backward, with a fine yellow lip, broadly expanded, lighter and brighter in color than the type. The broad sepals are finely cut or toothed along their edges, in the way of a carnation, and have a glistening or sparkling appearance, as though covered with frost or small particles of mica. An added charm is its delicate fragrance.

Cyp.

CYMBIDIUM MANDAIANUM.—This is a lovely variety, for at present I do not think it a new species. The plant in its growth and manner of blooming resembles *C. Lowianum*. At present it has about fourteen flowers on the spike, but they will doubtless increase in number as the plant gains strength. The flower now before me, sent by Mr. Manda, of the United States nursery at Hextable, is upwards of four inches across, the sepals and petals yellow, tinged with green; lip white at the base, with a large patch of citron yellow where the color is deep maroon in *Lowianum*. The side lobes



VIEWS IN THE ALLEGHENY PARK CONSERVATORIES. GROUP No. 2.

are also tinged with yellow at the extreme base of the lip, and at the base of the column is a blotch of rich yellow, the lip being ornamented with two large, raised, white fleshy ridges. It is a magnificent and distinct plant.—*W. H. G. in London Garden.*

Ixoras.

The ixoras are among the most beautiful flowering stove plants in cultivation, and certainly deserve more extensive cultivation than they receive in this country. In England they are among the most popular plants for stove and greenhouse decoration, and specimen ixoras are a marked feature of all the horticultural exhibitions in that country. One reason that they are not grown more extensively is that many gardeners have the idea that they are plants of difficult cultivation, which is a mistake, for with a little attention and labor, together with sufficient heat, anyone can grow them. They are usually of compact, bushy habit, and require little or no training to make sharply plants. They are natives of Asia and Africa, although a few species have been found in tropical America and the Pacific Islands.

Ixoras should be grown in a warm

house or stove, and when growing plunged in bottom heat and kept shaded; do not let them get dry at the roots, and syringe frequently in order to ward off the red spider and thrip. A summertemperature of about 75 degrees suits them, and an ordinary stove or warm greenhouse is sufficient for winter. Re-pot after flowering, using fibrous peat, a small quantity of fibrous loam, and a little fine sand, potting very firmly. When they are growing freely and setting the flower buds, an occasional watering with liquid manure is beneficial. In autumn and winter keep a little dryer, and give less shade, so as to thoroughly ripen the wood. About March give more water and bottom heat and plenty of moisture till growth is completed and flowers set. Then give less shade and move to cooler house to flower.

There are over twenty different varieties in cultivation, ranging in color from white to orange scarlet, many of the best of them being greenhouse hybrids.

I. coccinea is one of the finest species, and blooms very freely in a young state, producing immense trusses of bright red blooms. This species is a native of Java, where it is considered a sacred plant and from the color and quantity of its flowers it received the name of tree of fire.

Ixora acuminata is a very strong growing species, with large, dark green leaves, and large white flowers. Native of East Indies.

I. amabilis, a garden hybrid of good habit and vigorous growth, producing large corymbs of deep salmon colored flowers.

I. Colei, a garden hybrid of good habit, producing in great abundance large, round corymbs of pure white flowers.

I. Griffithii, (syn. *I. hydrangea-formis*) a very large growing plant with bright orange flowers, and is one of the best of the large growing species.

I. Javanica, very distinct and free flowering; the flowers are produced in dense corymbs, and are orange in color.

I. Javanicus floribunda, a garden hybrid similar to the above except that the flowers are bright scarlet.

I. Prince of Orange, a garden hybrid of very dwarf habit and remarkably free flowering. The flowers are rich orange, tinged with violet, and are produced in dense corymbs.

I. Williamsii is a garden hybrid, and is one of the best in cultivation; it is of very free growth, the flowers dark salmon and very large.

I have enumerated only a few of the most distinct varieties. There are many

others, but they all have the same general characteristics, and as the taste for stove plants is on the increase, I am sure they will soon be as popular here as they are in England.

Maywood, N. J. JAMES S. TAPLIN.



I am not going to deal with this subject in any scientific way, inasmuch as I know nothing about it (which is a confession, perhaps, some scientists will also make). It is defined by some as a bud- or seed-variation, and it is with the former of these I have now practically to deal. It is one of considerable interest to the gardener, and we all know how frequently it occurs in chrysanthemums, whilst we have many instances of it amongst roses.

There are two ways in which this variation occurs in the rose—(1), in a change in the habit of its growth; (2), in a change in the color of the flower. We have many instances of what are called climbing varieties of many of our roses, the most notable of these being perhaps climbing Devonensis, and climbing Niphetos. We have also Victor Verdier, Captain Christy, Charles Leclerc, and others, which have developed the same tendency. The why or wherefore I have never yet heard explained. Take, for example, Devonensis, in its normal condition a very small and even delicate grower, there appeared many years ago with Mr. Pavitt, of Bath, a very vigorous shoot, which took away to a length of sixteen or eighteen feet in one season. This was so very remarkable, that he determined to propagate it; it has remained true to its character, and makes shoots sometimes of twenty feet in a season. At the same time there is no deterioration in the flowers, which are so like those of the type that the National Rose Society has bracketed them together. Another instance of a similar character has occurred recently in climbing Niphetos. I have brought out two years ago by Messrs. Keynes, Williams & Co., the noted Salisbury firm: this, like that previously mentioned, will sometimes grow twenty feet in a season, although as it is well known, the plant itself is a dwarf tree, but of more vigorous constitution than Devonensis. I do not at all know how this is to be explained. Climbing, of course, in the true sense of the word, they are not, but why these particular plants should have so acted is a puzzle. [Possibly from atavism, or reappearance of some ancestral condition, Ed.]

Amongst the hybrid perpetuals we have also several so-called climbers, but they do not attain to the same vigor of growth as the teas mentioned, still they will make shoots sufficiently long to make them good pillar roses, such as Captain Christy, Bessie Johnson, Charles Leclerc, and Victor Verdier, but I have not seen on any of these as good flowers as could be gathered from dwarfs of the same variety; this may not be the experience of others, but it certainly is mine. They make very effective pillar roses, and when these are required it is better to use them than hardy summer-blooming roses.

But the most frequent and most interesting cases of sporting are those which occur in the flower; they are continually taking place, and perhaps in more cases than we are aware of. The usual procedure is this: A branch of some particular variety shows a bloom of a different shade of color; buds are taken from this branch; the budded or grafted plants are carefully watched to see whether the sport is what is called fixed, i. e., whether the blooms produced on plants budded from the original one will show flowers of the same form and color; sometimes they do not, and at other times they remain true. A neighbor of mine got on one of his plants of Anna Olivier a very beautiful orange-yellow flower. As the rose stands A1 in its form and substance, it need hardly be said that a flower like it, but of this color, would have been a great acquisition; it was placed in the hands of one of our most eminent rose growers, who gave it a fair trial; but, alas, the plant reverted to the type, and the hopes raised on it have been disappointed.

I have noticed that very often on these sports there is some deterioration in the substance of the flower, as in the case of White Baroness, which is not nearly so full as the rose from which it has originated; while in another flower of the same origin we have an entirely different build, as Merveille de Lyon; it is more open, and not such large petals; has a great tendency to show the eye. I once thought I had obtained a white Catherine Mermet, that was before The Bride was introduced, but it did not remain true. Some roses are much more inclined to sport than others, Baroness Rothschild is one, and Madame Clemence Joigneux another; from the former we have had Mabel Morrison, White Baroness, Merveille de Lyon, and, perhaps, Puritan; from the latter, Pride of Reigate, and William Warden. In the case of the sports from the Baroness, they are all in the direction of white flowers, the pale tinge in the type being eliminated; the sports from the latter are curious, one is a craped flower, not only of no beauty, but I think of positive ugliness, and William Warden is of a very delicate shade of pink, but cannot be depended upon, as it is constantly receding to the original color.

Lady Mary Fitzwilliam has given us the sport of Lady Alice, but its distinctness is, in many cases, very questionable. I have seen them distinct, but I have also seen them so alike that they might have been exhibited under either name.

There is one unpleasant thing connected with these sports, and that is, you can never be sure that they will not hark back again, thus there can be no more distinct sport than that remarkable rose, Sir Rowland Hill, a sport from Charles Leclerc, of the most taking deep claret color, but in one instance I heard of this year it had reverted to the type, and was a veritable Charles Leclerc. I do not, however, think that this is any proof against the fixity of the sport, but where this is general, where there is no certainty of what character the bloom may be, there one may reasonably question whether the sport is worthy of relation in a separate form. If, let us suppose, in half a dozen plants of any variety, five were to revert to the type, then it would be valueless. It is quite possible, too, that soil and situation and stock may all have influences of which we may be ignorant, and so, in many cases, lead to disappointment. I was this year acting as judge at a northern show; we had to judge some stands of 48's, and in one of

them there appeared, under different names, two roses which certainly bore a most remarkable resemblance to one another; they had different names, and as the judging had not commenced, it was permissible, according to the rules of the National Rose Society, with which this society was affiliated, to call on the exhibitor to take one away. He was accordingly sent for; he protested that he exhibited them under the names they bore, and that they were not duplicates. This satisfied me, but not my fellow judge. In vain I told him this had not been bracketed among the "too much alike" roses, and that therefore the exhibitor had a perfect right to put them up. Nothing would satisfy him, and before we judged the stands this had to be altered. I think I was right, but it only shows the difficulties that may arise from these sports. I think it would have been a monstrous thing to say that the person who sent out the sport had acted improperly, as he had grown and tested it. It bore all the character he gave it, and this was only another instance of the vagaries of sports. By-the-by, is Princess of Wales a sport from Comtesse de Nadaillez?

Here are some cases, then, in which the sport is quite equal in beauty to its parent, such as in the case of The Bride, and some in which it is, I think, inferior, as in Pride of Reigate, but I know of no case in which it surpasses the parent in beauty.—*Wild Rose in Gardeners' Chronicle.*

Lining Graves.

In response to the article in the AMERICAN FLORIST of June 11 by H. H. Battles, I will tell the little I know about lining graves. It has become quite the fashion in this small town, and is sometimes very nicely done.

About twenty yards of bleached muslin are required—not necessarily of best quality. The box being lined with the muslin, neatly tacked in, the edge is drawn over the edge of box, and tacked on the outside. Then cut for the grave, long enough to reach from top of box to top of grave, and about half a yard extra, cut a sufficient number, so that when sewed together on a machine the width will smoothly tuck around the outside of the box. Next a panel of boards, as described by Mr. B., is laid around the opening to the grave; these should be halved together at the corner to make a smooth surface. While two persons are tacking the box in the grave a third holds the lining gathered in his hands, and no earth can get inside; this lining is then cut at the corners sufficient to allow drawing it smoothly over the panel, tacking it to the outside; the corners will need a square piece to cover them, and all tack heads should be concealed by pushing the point through the cloth upward, and then, when turned point downward, the cloth covers the head. Over this panel, on one grave, for an old gentleman, small evergreen branches were laid, and on these pretty sprays of *Deutzia gracilis*, while at intervals, but not in set form, around the top of the lining, were pinned sprays of the same flower. The box cover is also covered on both sides with the muslin, and the top trimmed to correspond with the grave; the strap blocks are first removed; these are also covered and replaced. I assisted in trimming such a lining, and we used white asters and smilax in dainty bunches, festooned to the lining with coarse wire hair-pins, which readily push through the muslin, and the



BASKET OF LILACS

loop holds the flowers. Evergreens were laid on the panel, and asters and smilax over them, but not to conceal all the white surface; at the head of the grave, on the panel, was a bouquet of white flowers. In both instances the mounds of earth were entirely concealed by branches of evergreen.

For the funeral of an elderly lady recently I saw just the box cover, which was covered with cream white cloth, and the head of the cover was neatly draped with the cloth by laying it in plaits at the edges, and leaving the centre somewhat loose. In the centre was the word "Rest," made of small oval round leaves sewed or stuck on. Around the edge of the foot half of cover was a vine of smilax caught with bunches of dark pansies, also a pretty bunch below the wood. It was very beautiful, except the letters, which were not to my taste, but were pretty in many people's eyes. A grave with white lining, neatly put in, loses all its ugly look, and is a comfort to the friends.

L. S.

Basket of Lilacs.

The basket used in the illustration is one that we have filled in various ways with good effect. We tried for a long time to get just this shape. The dealers in baskets had many kinds of hampers, but not just what we wanted. Finally we found it in small champagne baskets (pint bottles, I think). Some we painted with Aspinalls enamel which can be had

in beautiful colors; others we gilded. Should you attempt this let me caution you against using the cheaper kinds. We have found it much better to buy the powders and the liquid separate, mixing as we wish to use it.

The illustration is more to show the style of basket than the arrangement of the flowers. We simply put the lilac in carelessly that it might make an attractive picture, the basket being used more as a box to send loose flowers in than anything else.

One Christmas we had quite a number of these baskets and used them only for particularly fine flowers. We sold none for less than ten dollars and some for fifteen and twenty; in every case to the entire satisfaction of the customer. We line the basket with wax paper and arrange the flowers as prettily as we know how, bearing in mind harmonious colors and trying to produce an effect that will give the recipient a pleasant surprise. After the basket is filled we close the lid and tie a handsome piece of ribbon around it with a large bow on top.

We have tried for a long time to get some very rough baskets made from natural willow with the bark on, but have been unable to do so. If any reader of this article is in a position to make these baskets or to have them made I am confident that a good market will be found for them. Great care, however, should be used in selecting a few good shapes. The French make something of this kind, using a willow whose bark is a beautiful brown.

H. H. BATTLE.

Names and Addresses of Chairmen of Committees of Toronto Gardeners' and Florists' Club for S. A. F. Convention, August, 1891.

Reception Committee—Mr. John Chambers, Superintendent Parks and Gardens, St. Lawrence's Hall, Toronto, Ont.

Trade Exhibit Committee—Mr. Thomas Manton, florist, Eglinton, Ont.

Entertainment Committee—Mr. W. J. Laing, 401 Huron street, Toronto, Ont.

Ladies' Committee—Mrs. Fraser, florist, Spadina Crescent, Toronto, Ont.

Introduction Committee—Mr. F. G. Foster, florist, Hamilton, Ont.

Decoration Committee—Mr. C. Arnold, florist, 521 Queen street, W., Toronto, Ont.

Finance Committee—Mr. J. H. Dunlop, florist, corner of Bloor street and McKenzie avenue, Toronto, Ont.

Printing and Badge Committee—Mr. S. E. Briggs, of the Steele Brothers Co., corner of Front and Jarvis streets, Toronto, Ont.

Bureau of Information—Mr. George Vair, care Sir D. S. McPherson's Chestnut Park, Toronto, Ont.

When writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

Coming Exhibitions.

June 29, Hamilton, Ont.—Rose show Gardeners' and Florists' Club of Hamilton. H. Browne, Sec'y., Wentworth street.

July 22-23, Toronto, Ont.—Flower show Toronto Electoral District Agricultural Society. J. P. Edwards, Sec'y., 146 Wellington St. West.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society. Robert Manning, Sec'y., Horticultural Hall, Tremont St.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society. Thomas Vair, Sec'y.

September 8-10, Hartford, Conn.—Fall exhibition Hartford County Hort. Society. Edwin A. Taylor, Sec'y., P. O. box 1015.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society. Robert Manning, Sec'y., Horticultural Hall, Tremont St.

November 2-8, New York.—Chrysanthemum show Madison Square Garden. J. W. Morrissey, Sec'y., Madison Square Garden.

November 2-5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society. Edwin A. Taylor, Sec'y., P. O. box 1015.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society. Robert Manning, Sec'y., Horticultural Hall, Tremont St.

November 3-6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club. W. H. Ellis, Sec'y., 135 Mason St., Milwaukee.

November 3-7, Detroit, Mich.—Chrysanthemum show Detroit Florists. Robert Flowerday, Sec'y., 460 John R. street.

November 4-6, Wooster, O.—Exhibition Wooster Floral Club. W. A. Porter, Sec'y.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y., 811 North Water street.

November 10-12, Pittsburgh.—Chrysanthemum show Pittsburgh and Allegheny Florists' and Gardeners' Club. G. Osterle, Sec'y., 508 Smithfield St., Pittsburgh.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society. James Galvin, Sec'y.

November 10-12, Toronto, Ont.—Chrysanthemum show Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y., Normal School, Toronto.

November 10-12, New Bedford, Mass.—Chrysanthemum show New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y., 34 Arnold St.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society. D. D. L. Farson, Sec'y., Horticultural Hall, Broad St.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago. James D. Reynolds, Sec'y., Riverside, Ill.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club. E. Nagel, Sec'y., 1116 West Lake St.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y., 37 Mass. Ave.

November 11-12, Worcester, Mass.—Chrysanthemum show Worcester County Hort. Society. Edward W. Lincoln, Sec'y., 5 Oak St.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society. Thos. Vair, Sec'y.

November 11-12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y., 688 Sherbrooke St.

November 11-13, Springfield, Mass.—Chrysanthemum show Hampshire County Hort. Society. George D. Pratt, Sec'y.

November 11-13, Utica, N. Y.—Fall exhibition Utica Florists' Club. J. C. Spencer, Sec'y.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society. Chas. Wise, Sec'y., Third and Prytanis Sts.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club. Dan'l B. Long, Sec'y., 457 Main St.

November —, Washington, D. C.—Chrysanthemum show Washington Florists' Club. Eugene Cadmus, Sec'y., 1419 R St. N. W.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y., 55 Westminster St.

November —, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore. Henry Bauer, Sec'y., 1875 N. Gay St.

November —, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society. Wm. Gamage, Sec'y.

November —, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society. Thos. E. Meehan, Sec'y.

November —, New Haven, Conn.—Chrysanthemum show. New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y., 478 Orange street.

Boston.

The hot days of June have been making their impression on the roses, and as far as the in-door crop is concerned there might as well be none, for most of those now obtainable are scarcely recognizable as roses, and are not worth the trouble of cutting and sending to market. Out-door roses are, however, of pretty good quality, thanks to the recent rains, without which the roses would now have been in a sad plight, and the great rose and strawberry exhibition of the Massachusetts Horticultural Society, on June 23 and 24, might as well have been declared off. The copious showers of the past week have worked wonders for the parched-up crops, and, judging from present indications, the exhibition will be a very creditable one.

Carnations are still very abundant, as are also sweet peas. Carnations are more plentiful this spring than ever before in this locality. There is now a good regular supply of pink pond lilies and lily of the valley in the market.

The florists have been kept fairly busy with the many weddings and graduations, the culminating point having been reached on class day at Harvard, which occurred on June 19. The festivities on this occasion far exceeded those of any previous year, and the decorations of all descriptions were on an unprecedentedly large scale, so that the market was almost cleaned out of everything that was first class in the flower line. Palms, hydrangeas, and other decorative plants were also extensively used.

The only remaining occasion calling for a large consumption of flowers is the annual school festival, and after this is past the florists will have little to interfere with their discussion of the approaching Toronto trip, and the various well-

earned recreations of the season. Bunker Hill day, June 17, which is a holiday here, was celebrated by about twenty of the gardeners and florists by a trip to Scituate Beach, where a very pleasant day was spent. Mr. Edward Hatch, the auctioneer, was the guest of the day, he having extended many similar courtesies to the participants on previous occasions.

The plant growers seem to be generally satisfied with the results of the auction sales during the spring, fair prices having been obtained as a rule for well-grown stuff. Mr. F. Sander had a very successful orchid sale here on June 13, at which many fine and rare specimens were disposed of. The sale was under the supervision of Mr. A. Dimmock.

Mr. W. R. Smith, of the Botanical gardens at Washington, visited Boston for a few days, his Mecca being the grounds of the Arnold Arboretum, where he spent many enjoyable hours in company with his friend, Jackson Dawson, looking through the magnificent collection of hardy shrubs and trees over which Mr. Dawson presides, comparing notes and arranging for exchanges of novelties, etc. Mr. Smith pays Mr. Dawson the generous compliment of asserting that a few hours with Mr. Dawson gives him enough fresh enthusiasm and new ideas to keep him busy for six months. Mr. Smith also visited the new Back Bay Park and Harvard Botanic Garden.

Mr. R. Cameron, head gardener at the Botanic Garden, sailed for Europe on Saturday, June 20. He expects to visit Great Britain, France, Germany, and Spain, and will be absent two or three months.

Messrs. J. N. May and Ernst Asmus passed through Boston on their way home from a fishing trip at Rangleey Lakes. Fishermen's stories are always entertaining at least, if nothing else, and doubtless the two gentlemen will be glad to rehearse their exploits to any inquiring friends.

W. J. S.

Chicago.

Spring plant trade has been very large. There was quite a shortage on some stock, especially geraniums. But prices remained low in spite of the shortage. The larger part of the increased demand is said by some to be due to the immense number of bedding plants now used by dealers in suburban real estate in decorating their allotments with flowering plants in order to favorably impress the home seeker. Certainly many thousands of bedding plants have been used for this purpose. But in nearly every case the prices paid have been low. The real estate men who contemplate the decoration of an allotment generally make out a list of the plants wanted and send it to every florist in the directory to bid upon. As a result the supply of geraniums was early disposed of in large lots but at low rates, and later on the supply was found insufficient for home trade. It is to be hoped that this demand may be a permanent one, but it is feared that it will not as it will naturally depend upon the activity in the real estate market, a mighty uncertain quantity.

Mr. H. B. Beatty left for home on the 17th inst.

Mr. J. T. Anthony is enjoying better health at present than for some time. He is far from being in perfect health but is able to be around. He has been very poorly all winter.

By the way, Mr. Anthony doesn't take much stock in studying up on artistic floral arrangement. He says the chances of

being able to put artistic ideas into execution are altogether too slim. He never had but one carte-blanche order. In every order he ever had, with the one exception noted, the flowers to be used were designated by, and he had to arrange them according to the ideas of, the party ordering them. He says he has put together some of the most horrible combinations of color imaginable, but they were ordered that way and he would have lost the order had he attempted to tell the lady that something else would have been in better taste. But he says also that when he had his one carte-blanche order he made a better decoration for \$250 than the one he did for the same party at the same place at another time—under specific instructions—at a cost of \$1,100, and while this fact was admitted at the time he still receives specific orders.

Regarding the reckless way in which some florists do business the story is told that one of our local lights refused to plant certain geranium beds for \$8 per 100 plants but agreed to fill the beds for \$35, this without figuring out how many plants would be required. His offer was accepted. He filled the beds and it took a round 500 plants. So he refused \$8 and accepted \$7 a 100.

At Lincoln Park work is progressing upon the new palm house. The foundation is now completed and the heavy iron-work is on the ground ready to be placed in position. In order to screen the unsightliness of the building material from observation the site has been enclosed by a high board fence, at the foot of which morning glories and other climbers have been planted and which will soon convert the fence into an object of beauty. Strings are provided for the morning glories, but for some of the more rambling climbers brush has been tacked onto the fence. Mr. Pettigrew's garden of hardy flowers, though hardly yet in condition, is attracting much attention; the old half-forgotten favorites seem to bring back many happy recollections to the older visitors to the park, judging from the exclamations overheard. The beds of stocks have been a very attractive feature for some time, but are now past their best. The beds of geometrical patterns are all there as usual, some of the designs being very intricate. Near the old palm house is an immense bed of gladioli bordered by mignonette and acahyphas. In the hardy garden *Cypripedium spectabile* is now in bloom, and visitors tell one another, "Don't fail to see the Indian moccasin flower."

Trade was on the whole very quiet the early part of last week, but during the latter half was active. The quality of the stock is about the same, no first-class roses to be had, with the exception of La France. This rose is certainly the best pink variety for summer flowering, showing less mildew than any other rose at present in the market. Jacques are nearly gone. Those on the market are the tail end of the open ground crop, and are rather small and poor. A few growers are cutting some good Beauties from plants grown for summer trade. The flowers are of good size and fine color, though the stems are rather short, owing to the fact that the plants are still small. Sweet peas from the open ground are coming in freely from southern Illinois.

The decorations for the Philadelphia Clover Club banquet at Kinsley's were unique. The center piece consisted of an immense clover leaf about six feet in diameter, the center composed of red clover and the outer edges of white. Running around in this clover field were seen about

a dozen pigs (in candy) that seemed to be enjoying themselves hugely. The whole design was lit up by tiny electric lights. The mantels, radiators, window recesses and every available place was made into a veritable clover field. The decoration was done by Joseph Curran and reflected great credit upon him.

F. E. Parcell's new houses at Lake Forest are two 18x100 and one 18x218 instead of as given in last issue. He is also building a new dwelling house.

At the McCormick rose houses at Lake Forest, one house will be devoted to carnations this year.

Mr. J. L. Russell of Denver is in the city this week.

Mr. W. C. Cook is here looking after the interests of Pitcher & Manda, Short Hills, N. J.

A party of Californians called at World's Fair headquarters Monday to protest against the appointment of Wm. Forsyth and to urge the appointment in his place of Gen. J. DeBarth Shorb of Los Angeles.

Springfield, Mass.

The Hampden County Horticultural Society's rose and strawberry show was held at the city hall June 15 and 16, 1891, the date being changed from the 18th and 19th on account of the forwardness of roses. The exhibition, although small and not very well attended, was very fine and well staged. The receipts were devoted to the Aged Couples' Relief fund.

The professionals exhibiting were the Mieliez Horticultural Co., a large collection of cut blooms of hardy roses and palms in pots; N. J. Herrick, a large specimen of the Abyssinian banana tree and a large collection of palms and ferns, which were to decorate the orchestra stand; the Gale Floral Co., cut blooms of house roses and orchids; W. H. Spooner, Jamaica Plain, Mass., a large collection of cut blooms of hardy roses; S. T. Hammond, this city, pyrethrums and cut blooms of roses.

The Springfield Amateur Horticultural Society held its annual rose and flower show at the Union armory on June 16 and 17. The exhibition was large, varied and well attended, the chief attraction being the exhibition of Pitcher & Manda, Short Hills, N. J.

The professionals exhibiting were Pitcher & Manda, Short Hills, N. J., a large collection of orchids, palms and tropical plants, such as never before seen in this section, in charge of Mr. Hodding; William Falconer, Glen Cove, L. I., collection of evergreens, sweet peas and hardy herbaceous plants; Thaddeus Hale, South Bayfield, Mass., forty varieties of mound, sea and old-fashioned hardy pinks; W. H. Spooner, Jamaica Plain, Mass., large collection of blooms of hardy roses; Jagel & Co., West Springfield, Mass., fuchsias, palms, ferns, geraniums, including a new variety, "Johanna," originated by Mr. Jagel, which is like the "Happy Thought," except that the leaves are curled and the stems are white with a rosy tint; S. T. Hammond, Springfield, Mass., pyrethrums and roses; C. Atkins, Springfield, Mass., hardy herbaceous plants; Gale Floral Co., Springfield, Mass., vase of cut roses; A. B. Copeland, Springfield, Mass., pansies, fuchsias, begonias, calceolarias, verbenas, geraniums and the native hardy pitcher plant *Sarracenia purpurea*; C. L. Burr, Springfield, Mass., roses, pansies and hardy herbaceous plants; F. R. Belden, Springfield,

Mass., fuchsias, petunias and a large collection of seedling tuberous begonias; G. E. Phelps, Springfield, Mass., large collection of many kinds of begonias. C.

Toronto.

As business slackens convention matters begin to take precedence and members of the various committees appointed by the club are meeting to discuss ways and means in order to obtain success for their respective departments.

How are the members of the S. A. F. on cricket? If the florists of the United States can scare up an eleven I think the florists of Canada could do likewise. An enjoyable match would no doubt be the result. Park Superintendent Chambers will take care that a good ground is secured.

Everyone knows the partiality of the S. A. F. for bowls (no insinuation intended) and the interests of the bowlers will be strictly attended to.

I hear that the combined brains of the entertainment committee are evolving among other things an excursion on the blue waters of Lake Ontario for the Friday afternoon, with banquet, dinner or feed of some kind, followed by speedily on shore.

Toronto is just now getting excited over the coming convention of the National Education Association, which takes place July 14 to 17. An army of no less than 10,000 to 15,000 delegates is expected to invade the city at that time and the capacity of our hotels and boarding houses will be stretched to the utmost to get them all under cover. Florists need not be afraid of there being insufficient accommodations here after that. E.

New York.

Mr. George M. Stump and family sailed for Europe on the Saale Saturday morning, the 20th. The night before a large party of his friends went to Hoboken to see him off. It was astonishing to see the great amount of flowers which had been sent to him; every basket on the boat seemed to be marked "Stump." One of these, which Mr. Stump showed us with a great deal of pride, was a large design of flowers representing a race track and the running of the Suburban race at Sheepshead Bay. On this were placed small horses just as they had finished—Tenny last.

The flower season here is drawing to a close, the principal work now being steamer baskets.

Mr. Charles P. Anderson, who has been so long connected with the John Henderson Company at Flushing, severed his connection with that firm June 13. It is understood that Mr. Patrick Brogan, who also has been there a number of years, will assume the management of the greenhouses. JOHN YOUNG.

Philadelphia.

ANOTHER CARNATION CONTEST.—Mr. Robert Craig has offered a cup, value \$25, to be competed for at the spring show of the Pennsylvania Horticultural Society, for the best twelve carnation blooms of any variety not yet disseminated. Open to all. E. L.

WHEN sending us small amounts in postage stamps, please select those of the 2-cent denomination.

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Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE CHRYSANTHEMUM CLUB of New Haven, Connecticut, has issued a prize list for the exhibition to be given next November. Classes are provided for "Florists Only," "Gardeners Only," and "Amateurs Only," and another class is open to all. There is a very lengthy list of rules, added to which are definitions of the terms "florists," "private gardeners," and "amateurs" as adopted by the club, and which we quote: "A florist is one who (owning or hiring the land and building occupied by him) cultivates plants and flowers to be sold to the public for his own profit, or derives some pecuniary interest in or derives some pecuniary profit from the cultivation and sale of plants and flowers. A private gardener is one who cultivates plants and flowers for some other person than himself, not a florist, and in which cultivation he has no pecuniary interest, and for which he derives no pecuniary profit, except as salary or wages from his employer. An amateur is one who cultivates for pleasure or for love of the plants and flowers themselves and not for pecuniary profit." Copies of the prize list may be had on application to the secretary, Miss Frances S. Ives, 478 Orange street, New Haven, Connecticut.

REGARDING the wonderful "Fleur de Lune," of which we recently gave a "description" clipped from a daily paper, a correspondent at Mt. Sterling, Kentucky, writes that there is no party there of the name given, and none of the local horticulturists ever heard of such a man or such a flower. Our correspondent seems to have failed to grasp the fact that we transferred the "description" to our columns simply as a sample of a reporter's "fak" and for the amusement only of our readers.

IN THE MATTER of a standard chart of colors progress is being made, though slowly. In the consideration of the subject it has seemed that a good beginning would be made if all could agree upon three flowers having the three primary colors, preferably species as such would be less subject to variations in color than varieties. Will our readers undertake to name three flowers that to their minds present the primary red, yellow and blue?

A NEW YORK paper says that a part of the education of Japanese girls is the art of arranging flowers, and adds that this is something for American girls to learn. With the Japanese the front of a leaf is masculine, the back is feminine. The buds are also feminine, but the full-grown blossom is masculine. Their forms and colors also have meanings, which a Japanese woman sometimes studies over for years.

WHO SHALL be the Chief of the Horticultural Department of the World's Fair is still undetermined. The appointment of William Forsyth of California, as announced in last issue, came before the local directory for confirmation at the meeting held last Friday, but the committee having the matter in charge asked for a week's further time to consider the matter and the same was granted. Hence action was deferred until June 26.

MR. HERMAN BUCHELER, of Oconomowoc, Wisconsin, writes thanking the officers of the Florists' Hall Association for the very prompt settlement of his loss by hail. He says: "On June 4 I lost nearly all my glass by hail, and to-day (June 16) I have received from the association payment for the loss. It is certainly remarkably prompt action, and I wish to publicly express my appreciation."

IN THE supplement of the *Scientific American* for June 13 appears a freely illustrated and very interesting article on the influence of electricity upon plants, giving the results of many experiments made in France, where efforts have been made to make practical use of the electric fluid in stimulating the growth of field crops.

The annual chrysanthemum show of the Northern Horticultural Society of Tasmania was held at Launceston on April 23. The chrysanthemum has attained to popularity at the antipodes as well as here, though it blooms at a different season there.

UNDER DATE of June 13 notice has been given that the interest of Charles P. Anderson in the John Henderson Co., Flushing, N. Y., has been cancelled by mutual consent, and that the business will be continued as before by the John Henderson Co.

WHEN remitting small amounts by check, please add ten cents to the amount or the check to pay the exchange on same.

THE STATE Horticultural Society of Wisconsin held its summer meeting at Kilbourn City, June 23 and 24.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

THE Scottish Pansy Society held its annual exhibition June 19.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By young man in florist's business; well up in general greenhouse work. Address H. C. Passaic, N. J.

SITUATION WANTED—By an experienced rose grower, used to taking charge of cut flower establishments; single; German; born in Germany. Address S. care American Florist, Chicago.

SITUATION WANTED—In or near Chicago, by a young German florist, who thoroughly understands his business. Also good rose grower. Can give best of references. Address C. H. Fick, Summerdale, Cook Co., Ill.

SITUATION WANTED—By experienced florist, to take charge of private or commercial place; thoroughly experienced in all branches. Age 29. First class references. Address PRACTICAL, care American Florist, Chicago.

SITUATION WANTED—An experienced rose grower, used to taking charge of cut flower establishments; wants a good situation as soon as possible. References of the best, such as Craig Bros., Phila. and others. Address L. B. care Am. Florist, Chicago.

SITUATION WANTED—By a first-class landscape gardener and florist; 15 years' experience; married; position as foreman or superintendent of country, public grounds, or private place; best of references; South desired. Address TETE, care American Florist, Chicago.

SITUATION WANTED—As foreman in a large, first-class place by the 1st of August or September. North preferred. Understands growing general bedding and cut flower stock; also design work and decorating and trees. Address J. M. Post, Box 173, Memphis, Tenn.

SITUATION WANTED—As head gardener, by a N. German; single, age 35; experience of 23 years in propagating and growing roses, carnations, stove, and bedding plants; would take commercial or private place; can furnish good references. Address C. J. care Williams, 67 Bromfield St., Boston, Mass.

WANTED—Experienced man to assist in greenhouse work. State age and wages. Address Box 356, Maywood, Ill.

WANTED—100 feet of 4-inch hot water pipe and fittings. Cash for same. Address J. H. Cunningham, Delaware, Ohio.

WANTED—Trade lists of bulbs and florists stock. South Front and Gaines street, Portland, Oregon. Address WILLIAM BOSCH.

WANTED—A first class orchard, palm, fern and stove plant grower. State wages expected. Must be a teetotaler, none other need apply. Address R. J. Mendenhall, Minneapolis, Minn.

WANTED—A good gardener and propagator, and man capable of doing any kind of work on a large commercial place. Address HENRY MOORE, 31 Beale St., Memphis, Tenn.

WANTED—A married man who has had experience on a commercial place, to take half interest in a large place, where there are greenhouses well heated. A good man can find a bargain with small capital. Address HENRY MOORE, 31 Beale Street, Memphis, Tenn.

WANTED—Florist artist. Position will be vacant October 1st. Must be skillful, quick and of pleasing address. A good situation for a good man, none other need apply. Give references and salary expected. Address M. J. R. RUDICH, Pittsburgh, Pa.

FOR SALE—200 feet of 4-inch pipe; also one No. 16 fittings boiler in good condition. Address WM. A. BUCK, North Cambridge, Mass.

FOR SALE—400 feet 4-inch hot water pipe, almost new at 10 cents per foot; also four Myers boilers in good condition. Address BILGIER & BLAKEBOUGH, 5070 Germantown Avenue, Philadelphia, Pa.

FOR SALE—Floral Lawn; on account of sickness am obliged to sell my floral business, located opposite cemetery; well stocked; doing thriving business; everything sold on the premises. Will sell at great sacrifice. For particulars, address LEWIS K. FOX, Glenview, New York.

FOR SALE OR RENT—The only florist establishment in the town of Cumberland, Cumberland County, Pa., consisting of three greenhouses (1000 feet of glass) and all appliances for carrying on a profitable business. The city of Harrisburg within 15 minutes ride by Cumberland Valley R. R. stock can be purchased with a property. Title perfect. Failing health the cause of sale. Address J. M. LONGSDORF, Mechanicsburg, Pa.

For Sale.

A fine lot of *FICUS ELASTICA*, 3 to 4 feet, well furnished with leaves, 50 and 60 cents each. Also *Ficus Nitida* and a fine lot of *Cape Jasmines* in bud. HENRY MOORE, 54 Beale St., Memphis, Tenn.

FOR SALE OR RENT.

With or without stock. The old well established florist business of J. H. Campbell & Sons, About 20,000 feet of glass with hot water. Best of reasons for selling. A rare chance for a live man. Address 3601 Germantown Ave., Philadelphia.

Wanted.

FOREMAN for commercial establishment in vicinity of New York, must be energetic, well experienced in growing of cut flowers, palms and flowering plants, and able to take charge of a large stock of plants. Give ready place for the right man. Address, with full particulars and copy of references,

A GROWER, care American Florist.

THE FAMOUS

Azarea Vervœiana.

Having made a contract with Mr. B. Maenhout van Melle, of Ghent, Belgium, to handle this beautiful variety, we can offer them by the thousands at very reasonable rates.

HULSEBOSCH BROTHERS,

P. O. Box 3118, NEW YORK CITY.

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E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dept.)

All Flowers in Season.
Full line of Florists' Supplies.
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KENNICOTT BROS. WHOLESALE FLORISTS,

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All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. #2 WIRE WORK A SPECIALTY.

A. L. RANDALL, (Successor to C. H. Fisk), WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES, 116 Dearborn Street, CHICAGO. OPEN NIGHTS AND SUNDAYS. WIRE DESIGNS IN STOCK. Mention American Florist.

E. J. HARMS, Wholesale Dealer in CUT FLOWERS, And Florists' Supplies. 89 Wabash Ave., CHICAGO. Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese, Wholesale Cut Flowers, 66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
given to shipping orders.

Wholesale Florists LA ROCHE & STAHL N. E. CORNER 13th and Chestnut Sts., PHILADELPHIA. Mention American Florist.

CUT FLOWERS.

The Western Trade Solicited.

Write or Telegraph.

SMITH FLORAL CO.,

77 7th Street S. - Minneapolis, Minn.

H. SCHULTZ & CO.,
117 to 123 Market St., CHICAGO.

MANUFACTURERS OF
Paper Boxes for Florists.

Special long stem Rose Boxes.

one 10 x 4 x 3 inches.

FOUR IN SET 14 x 5 x 3

" 16 x 7 x 3 "

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Price, \$20 per 100 sets, packed. F. O. B. Chicago. All
other styles of boxes for Florists.

GREENHOUSE HEATING.

By A. B. FOWLER.

Explains fully all the best systems of heating
greenhouses by both hot water and low-pressure
steam. Tells you the points to consider in selecting
an apparatus. How to adjust same to various loca-
tions; gives the results of the latest scientific ex-
periments. Shows how to compute the number of
feet of pipe required for a given space; draft and
other important matters.

It is highly commended by Mr. John Thorpe and
others. Postpaid, 75c.

Sent on receipt of price. Address,
AMERICAN FLORIST,
CHICAGO.

Wholesale Markets.

Cut Flowers.

BOSTON, June 22.	
Roses, fancy	2.10 @ 4.00
Out-of-door Jacus and Ivy	4.00 @ 5.00
Valley	3.00 @ 4.00
Gloxinias	1.00
Nigette	1.00
Pyrethrum	1.00
Pink pond lilies	3.00
Carations	.50 @ 1.00
Snailx	12.50 @ 15.00
Aspidiums	1.00
Adiantums	1.00
Ivy leaves	.50
NEW YORK, June 22.	
Roses, Beauties	2.00 @ 3.00
Peries, Gouliers	1.00 @ 2.00
Niphetos, Souva	1.00 @ 2.00
Mermets, Brides, Cosins	1.00 @ 2.00
Valleyville, Hostes	1.00 @ 2.00
La France, Albany	2.00 @ 3.00
Wootton	1.00 @ 2.00
Carations, long	.50
Nigette	10.00 @ 15.00
CHICAGO, June 21.	
Roses, Am. Beauties	10.00 @ 15.00
Peries, Gouliers	5.00 @ 5.00
Mermets, La France	3.00 @ 5.00
Brides	3.00 @ 5.00
Niphetos	3.00 @ 4.00
Peries, Gouliers	3.00 @ 4.00
Bon Silence	3.00 @ 5.00
Carations, long	.75 @ 1.50
Carations, short	.50 @ 1.00
Valley	3.00
Callas	10.00 @ 20.00
Snailx	.50
PHILADELPHIA, June 21.	
Roses, Beauties	10.00 @ 25.00
La France, Albany	10.00 @ 25.00
Mermets, Brides	4.00 @ 5.00
Hostes, Wootton	3.00 @ 4.00
Peries, Niphetos	2.00 @ 3.00
Valley	3.00 @ 4.00
Carations	.50 @ .75
Sweet peas	1.00 @ 1.50
Adiantums	1.00
Snailx	15.00 @ 20.00

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67 Bromfield Street, BOSTON, MASS.	
Mention American Florist.	
GEO. MULLEN, WHOLESALE FLORIST, Florists' Supplies Always in Stock. 17 CHAPMAN PLACE, (Off School St., near Parker House), BOSTON, MASS.	
Orders by Mail, Telegraph, Telephone or Express promptly filled.	
Mention American Florist	
WELCH BROS. WHOLESALE FLORISTS 165 Tremont St., BOSTON, MASS.	
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in New and Middle States. Return Telegrams are sent immediately when it is impossible to fill order.	
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Mention American Florist.

GEO. MULLEN, WHOLESALE FLORIST, Florists' Supplies Always in Stock. 17 CHAPMAN PLACE, (Off School St., near Parker House), BOSTON, MASS.

Orders by Mail, Telegraph, Telephone or Express
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N. F. MCCARTHY & CO. Wholesale Florists AND JOBBERS IN FLORISTS' SUPPLIES, 1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place
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We keep a large supply of Fancies and Carna-
tions always on hand. Return telegrams sent
immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

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WHOLESALE CUT FLOWERS AND FLORISTS' SUPPLIES.

THE WISCONSIN FLOWER EXCHANGE,
132 Mason Street, MILWAUKEE, WIS.

Please mention the AMERICAN FLO-
RIST every time you write any of the
advertisers on this page.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS, No. 32 W. 30TH ST., NEW YORK.

Orders to be shipped will receive prompt attention.
Mention American Florist.

FRANK D. HUNTER, WHOLESALE DEALER IN CUT FLOWERS 51 West 30th St., NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST 53 WEST 30TH STREET, NEW YORK.

A. S. Burns. J. I. Raynor.

BURNS & RAYNOR, WHOLESALE FLORISTS, 11 West 28th St., NEW YORK.

C. STRAUSS & Co. GROWERS OF CUT FLOWERS. — WHOLESALE ONLY. — SPECIALTY.—Filling Telegraphic Orders. WASHINGTON, D. C.

ELLISON & KUEHN, — WHOLESALE — FLORISTS, 1122 PINE STREET, ST. LOUIS, MO.

C. E. & S. S. PENNOCK, WHOLESALE FLORISTS, 38 S. 16th Street, Philadelphia, Pa.

F. A. RIECHERS & SOHNE, Act-Ges, Import and Export Nurseries, HAMBURG, GERMANY. Specialties in Lilies of the Valley; Azaleas, Ca- mellias in sorts, best varieties in Palms and Dwarf Roses.

Free Wholesale Catalogue on application.

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DEVOTED TO THE BEST INTERESTS OF THE
FLORIST'S BUSINESS.

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ADDRESS:
AMERICAN FLORIST CO.

54 La Salle Street, CHICAGO.

☞ Real Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTLEDS, Lawrence, Kan., president; A. L. Dos, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Withersfield, Conn.

MR. HUNTER, with the Albert Dickinson Co., sailed for Europe May 15 for a three-months' trip.

CROP REPORTS.—Nebraska seed crops are said to be looking well. Northern New York and Wisconsin lack rain.

Those Boston seedsmen who have so often promised to be present at the next convention will surely come to Hartford.

OTTAWA, ONT.—The Florists' Club here is in a bad way. It may almost be said that we now have no club.

LOWELL, MASS.—Florist A. C. Tingley was visited by burglars the night of the 12th, but luckily they were scared away before securing any plunder.

DETROIT, MICH.—Information regarding the coming chrysanthemum show of the Detroit florists may be had on application to Robert Flowerday, 460 John R. street.

You can give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

Mention American Florist.

DAFFODILS FOR FALL DELIVERY.

We have had no frosts or snow in South of Ireland as in Holland and South of England, therefore Bulbs are very promising. Wholesale lists post free, and July delivery guaranteed. Collection complete and prices very moderate.

WM. BAYLOR HARTLAND, F. R. H. S., Seedsman,
CORK, IRELAND.
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FOR SALE.

THE CUTS

USED IN ILLUSTRATING THIS PAPER.

Write for prices on any which you have seen in previous issues and would like.

AMERICAN FLORIST CO.

CHICAGO.

THE AMERICAN FLORIST

AND

THE AMERICAN GARDEN

In Club one year for \$2 50.

Address AMERICAN FLORIST CO.,

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HAIL

Lock the door BEFORE the horse is stolen. Do it NOW!
JOHN G. ESLER, Sec'y & H. A.,
Saddle River, N. J.

IMPORT BULBS.

PRICES ARE DOWN.

LAST CALL.

You have time now to send us your list, and we promise for the next 10 days to make the lowest general offer on **Forcing Bulbs** that you have ever had. Try us on your general list now.

J. C. VAUGHAN,

P. O. Box
688.

CHICAGO.



CHOICE AMERICAN GROWN FREESIA BULBS, READY IN JUNE.

We have had grown for us 100,000 Choice Bulbs of **FREESIA REFRACTA ALBA**, which we offer on contract orders booked now, until stock is exhausted, at the following prices:

FIRST SIZE, SELECTED, much larger than French grown bulbs	Per 100	Per 1000
PURE WHITE, SELECTED, EXTRA, very fine bulbs	\$1.00	\$ 8.00
Special rates on application for large orders.	1.25	10.00

FLORISTS USING LILY OF THE VALLEY, BERLIN PIPES, ROMAN HYACINTHS, NARCISSUS, DUTCH HYACINTHS, TULIPS, ETC. will do well to send lists for our special offers. The quality of our Bulbs is unexcelled.

Z. DE FOREST ELY & CO.,

WHOLESALE IMPORTERS OF BULBS,

1301 and 1303 Market Street,

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Mention American Florist.



BULBS. BULBS. BULBS.
CHINESE NARCISSUS.

Order Now if you wish to secure BEST GOODS at Lowest Rates.
AURATUM, LONGIFLORUM, RUBRUM, KRAMERI, ALBUM, ETC. CALIFORNIA BULBS.

We guarantee you best stock at the most reasonable rates if ordered now.

Australian Palm and California Flower Seeds.

Send for our Newest Trade Price List.

H. H. BERGER & CO.,

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WANTED.

PHORMIUMS, Variegated Varieties.

ASPARAGUS PLUMOSA NANA.

Name best cash price, size and quantity can furnish.

W. N. RUDD, Supt., Mt. Greenwood, Ill.

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Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies, Etc., Etc. For prices examine

Wholesale Catalogue.

Address with business card

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STATION E. NEW YORK.

Mention American Florist

When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.

Cabbage, Celery and Cauliflower Plants.

CABBAGE.....	\$1.25 per 1000;	READY JUNE 1st to OCTOBER 1st.
CELERY.....	1.80	" " 20th " 1st.
CAULIFLOWER.....	2.75	" " 10th " 1st.

Trade List and Price on larger quantities sent on application. We make this a specialty, and can supply your wants in this line satisfactorily.

JOHN BLOOMFIELD, L.B. 215, OVAL CITY, Stark Co., OHIO.

TELEGRAPH AND EXPRESS OFFICE—MIDDLE BRANCH, O.

JOHN BLOOMFIELD, Oval City, Ohio.
DEAR SIR:—The Celery Plants arrived last Friday, August 24th, in fine condition and all satisfactory. Your method of packing is perfect.
Yours truly,
JULIUS BURGIVEN.

FORCING BULBS,

Hyacinths, Tulips, Daffodils, Narcissus, Lilies, Lily of the Valley, Etc., Etc.

ORDERS SHOULD BE SENT WITHOUT DELAY.

We find some of our clients often wait too long in sending their orders.

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WHOLESALE BULB GROWERS,
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W. W. BARNARD & Co.

6 and 8 North Clark Street,
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are quoting lowest prices on

Fall Bulbs

Special Import List mailed on
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SPECIAL LOW PRICES
— ON —

Lilium Harrisii, Longiflorum, Candidum, Roman Hyacinths, Paper White Narcissus, and all other kinds.

DUTCH HYACINTHS, TULIPS, CROCUS, SPIRÆA, LILY OF THE VALLEY, AZALEA INDICA, ROSES, ETC., ETC.

Wholesale price list on application to

HULSEBOSCH BROS.,
P. O. Box 3118. NEW YORK CITY.

The only Dutch Bulb Growers of whose firm there resides a member in New York, to conduct the business. So that we can be reached always.

J. A. De Veer,
154 East 34th St., NEW YORK.

A full line of Summer Flowering Bulbs, Seeds, Plants and Florists' Supplies furnished at lowest market prices.

CATALOGUE FREE TO APPLICANTS.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

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CUT SMILAX

At Summer prices—15 cents. Quality first class. Shipped on shortest notice. Telephone No. 15.
JOS. E. BONSALE, SALEM, OHIO.

HERMAN BUDDENBORG,
HILLEGOM, near Haarlem, HOLLAND,

WHOLESALE GROWER OF ALL KINDS OF

DUTCH BULBS AND ROOTS

Inform all intending purchasers that it will pay them to write for his wholesale price list. Special prices will be given to large importers on application. Prime quality at the very lowest prices is guaranteed by

HERMAN BUDDENBORG,
WHOLESALE DUTCH BULB GROWER,
HILLEGOM, NEAR HAARLEM, - - - HOLLAND.

R. VAN DER SCHOOT & Son,
HILLEGOM, - HOLLAND,

Largest Growers of

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.
HEADQUARTERS FOR FORCING BULBS.

Wholesale Importers should write us for prices.
OUR NEW TRADE LIST NOW READY.

HOLLAND FORCING BULBS

And Flower Roots of all kinds. FIRST CLASS Goods.

—) SEND FOR OUR PRICE LIST. (—

ORDER
EARLY.

C. H. C. MACHEN & SONS,
WHOLESALE BULB GROWERS.

WHOLESALE
ONLY.

WARMOND, (NEAR HAARLEM), HOLLAND.

Every Florist! Every Nurseryman! Every Seedman!

SHOULD HAVE
OUR TRADE

DIRECTORY.

Address **AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.**

Palms and Dracaenas.

The largest stock in the west, at \$5.00 per 100 to \$1.00, \$2.00 to \$10.00 each. Cycas revoluta, 50c to \$5.00 and \$10.00 each. Cycas leaves 25c to 50c each. **DRACENA INDIVISA AND VEITCHII**, 3-inch pots, strong, 15 to 18 inches, \$8.00 per 100. Send for wholesale price list and descriptive catalogue.

W. J. HESSE, Plattsmouth, Neb.
Mention American Florist.

LILY OF THE VALLEY PIPS.

Strong flowering pips from sandy soil with good roots, including cases and l. o. b. steamer, Hamburg, at Mark 23.00 per 1000. Offer for next fall.

J. TIMM & CO.,
Elshorn in Holstein, Germany
Mention American Florist.

News Notes.

GRIFPIN, GA.—The Middle Georgia Horticultural Society met here June 9.

ALLIQUENY, PA.—E. Ludvig recently returned from a visit to the florists of Cleveland and Detroit. He will soon open a new branch in the market, with wholesale and retail departments.

SPOKANE, WASH.—A very successful rose festival was held here June 11. Prizes were awarded for finest collection of roses, finest collection of cut flowers, finest single rose, most artistic arrangement of cut flowers and finest collection of wild flowers.

SERANTON, PA.—The partnership heretofore existing between Geo. W. Warner and J. H. McConnell has been severed by the death of Mr. Warner. Mr. McConnell has now associated with himself Mr. P. C. Langan, and the firm name is now Langan & McConnell.

SAN FRANCISCO.—At the regular monthly meeting of the California State Floral Society, June 12, a resolution was adopted "That we heartily indorse the movement on foot to separate the wine, brandy and horticultural industries of the World's Fair and the forming of two departments instead of one." This was telegraphed to the Director-General. The subjects for next meeting are "easily grown ferns" and "sweet-scented geraniums."

SALEM, OREGON.—The strawberry fair and rose show June 5 and 6 was very successful. In the rose classes prizes were awarded for single specimens of Baroness Rothschilds, La France, Papa Gontier, W. A. Richardson, Madame de Watteville, "Cloth of Gold," and best ten varieties, largest and finest display of named varieties, largest and finest display regardless of variety, twenty-five named varieties, best display of any one named variety, and best display of any single variety, the latter being awarded to a collection of La France.

CINCINNATI.—The season is now drawing near when the florists will be busy replacing their benches, getting ready for the fall trade. Such is the situation in Cincinnati at present. Quite a number of our prominent growers have been the victims of severe hail storms, some of them losing fully 90 per cent of all their glass, and without insurance. This will make no scarcity of cut blooms this fall, however, as several more of our larger growers were more fortunate, the storm doing them no damage. Owing to warm weather and numerous other reasons the Cincinnati Florists' Society has held no meeting, and the general impression now seems to be that we will have no chrysanthemum show this fall.

ST. LOUIS.—Some of the priests of the Catholic church have begun a crusade against floral designs at funerals. At a recent funeral Father Ziegler, of St. Malachy's church, demanded that the flowers be left on the outside of the church, claiming that they had no place in the last sad rites over a believer in the Catholic faith. According to the command the flowers and floral emblems were not taken inside the church, but were replaced on the coffin after the remains were brought back to the hearse preparatory to removal to the cemetery. This action on the part of Father Ziegler has created much talk and comment in Catholic circles, some even going so far as to say that the action was altogether unwarrantable.

PANSIES.

PANSIES THAT ARE UP. No need to worry over getting the seed to come up, it is up and ready to plant when I send them.

It is not only the plants that are up, the strain is up also; up to, and a goodly number of my customers say, above any strain in the market. The price is down, considering the quality of the strain, seed as good would cost you about as much per 1000 plants. My price is \$5.00 per 1000, or in lots of 2,500 and over, \$4.50 per 1000.

SEND FOR LIST AND SHORT PAPER ON CULTURE.

PLANTS READY AUGUST 30th TO DECEMBER 1st.

SMILAX.

Plants ready July 1st and later. These will be nice and stocky, and ready to go right ahead. There is some 40,000 here; let me have a chance to fill your order.

Send 10 cents for samples and get my prices before ordering elsewhere.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,

NEW ROCHELLE, N. Y.

New and
Rare Plants



ORCHIDS

Hardy
Plants.

PALMS,

FERNS.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

A FRESH CONSIGNMENT OF

MEXICAN ORCHIDS

Such as *Lelia anceps* (winter bloomer), *Lelia alba*, *Cattleya citrina* (extra fine), *Epidendrum virens*, *Odontoglossum aureum* (true), *Odontoglossum maculatum*, *Oncidium ornithorynchum*, etc., etc., at very low prices.

FREDERICK MAU,
P. O. Box 322, South Orange, N. J.

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The finest stock in the world. Nearly five acres devoted to their culture.

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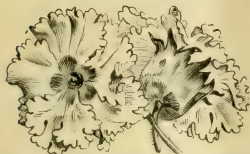
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Gentlemen—In regard to the sample of Insecticide submitted by you for trial, I beg leave to state that the preparation has been used on the University grounds with the following results: First, four ounces of the Insecticide were added to one gallon of water and applied to woolly aphids on apple trees with a spray pump. The insects were killed wherever touched by the wash, the result shows plainly that the material is effective wherever contact with the body of the insect can be made. Second, one-half ounce of the Insecticide was added to one gallon of water and application made by spray to the greenfly on rose bushes. The insects were killed on all sprigs reached by the spray. The amount of material submitted for experiment was too small to admit of large scale experiments, which would be desirable.

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Assistant Superintendent Agricultural Grounds.

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Dear Sirs—I have found your Little's "Antiseptic" very efficacious in destroying the insects injurious to plants, without affecting the plants in any way. I regard it as the best insecticide that I have used, and I would not be without it. It is easily applied, very effective, and can be used with safety. Yours truly,
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"For the search," says M. Claes, "one generally divides his men into groups of five to ten in number, each company collecting separately on the borders and openings of the forest. *O. crispum* (Alexandrae) is generally met with in the glades of the forest, or spaces cleared by the fall of some old tree. It prefers to grow on the tree trunks, rarely on the branches, and then only on the largest ones. It is collected with difficulty, because the natives show a great repugnance to climbing the trees on account of the scorpions and the thousands of insects which are hidden there, and particularly the ants, whose sting is very sharp.

"One is, accordingly, generally restricted to the single recourse of felling the trees, though this is not always an easy matter. The whole of a day must sometimes be taken by four or five men working together, and when the work is finished and the collector looks for his treasures, he sometimes perceives that they have not discovered any of the precious orchid, and that all his efforts have been thrown away.

"The harvests are much less fruitful than formerly, and may be estimated, under ordinary conditions, at twenty or twenty-five plants per day, with ten men. How much more numerous they were five years ago!

"After the plants are collected they are placed under a tent in a place carefully arranged to serve as a sort of headquarters. They are then cleaned and wiped thoroughly to remove every trace of humidity, which induces rapid decay. Lastly, when a sufficient quantity is collected and the journey is finished, they are packed up in cases, placed on the backs of mules and transported to the port of shipment. The journey occupies about five days, under ordinary circumstances and in the favorable season; but it is always necessary to reckon with unforeseen circumstances, and especially rains, so abundant in these regions, and which transform in a few hours the most gentle streams into impetuous torrents. It is also sometimes necessary to throw artificial bridges over the swollen water courses, and to carry the cases over to the other bank, while the mules, relieved of their burdens, pass over as best they can by swimming.

"The point of departure of the vessels is the town of Honda, in the State of Tolima, and in following the course of the Magdalena River, they next arrive at Barranquilla, the point where the river divides into two branches, the Upper Magdalena and the Lower Magdalena, and forms very dangerous rapids. Here the cases are transferred to the railway and conveyed by it to Savanilla, where they are embarked by the transatlantic steamers to their European destination.—*The Gardening World.*

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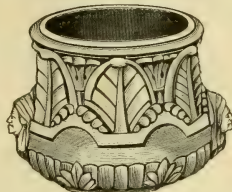
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150.....	12-inch.	40.....	18-inch.
50.....	14-inch.	30.....	20-inch.
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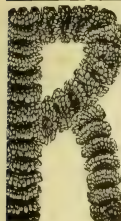
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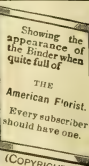
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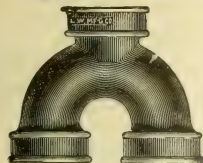
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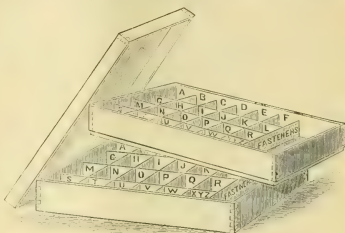
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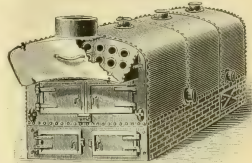
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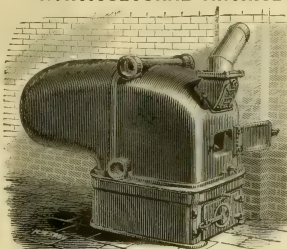
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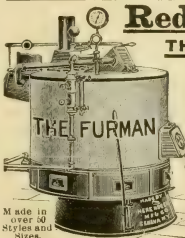
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Vol. VI.

CHICAGO AND NEW YORK, JULY 2, 1891.

No. 161.

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The Seventh Annual Meeting

— OF THE —

SOCIETY OF AMERICAN FLORISTS

— WILL BE HELD AT —

TORONTO, ONTARIO,

AUGUST 18, 19 AND 20, 1891.

Members may remit the annual dues (\$2.00) to the secretary or treasurer prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for not will be sent by mail to those who remit in advance of the meeting.

Tending members can obtain any information wanted by a direct communication. M. H. Norton, Pres., Boston, Mass.; John Chambers, Vice-Pres., Toronto, Ont.; M. A. Hunt, Treas., Terre Haute, Ind.; W. J. Newart, Sec'y, 57 Bromfield Street, Boston, Mass.

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Massachusetts Horticultural Society.

ANNUAL ROSE AND STRAWBERRY EXHIBITION.

Almost an entire week of rain ending up with a spiteful downpour on the day and night immediately preceding the opening of the exhibition; this was the discouraging condition of things attending this most important event.

How it came to pass that there were any roses at all that were not battered to pieces or any strawberries that were not rotted through and through is inexplicable, but somehow or other the busy exhibitors managed to turn out enough so that when at noon on Tuesday, June 23, the show was opened to the public, there was quite a respectable display for them to examine and admire. The weather, as if to atone in part for its bad behavior of the preceding days, cleared up beautifully and during the two days of the exhibition could not have been much better, so that the conditions were good for a large attendance and the financial results were therefore quite gratifying. The lower hall was as usual devoted to the strawberries, early vegetables, etc., with a fringe of miscellaneous floral collections around the sides, while the upper hall was given almost exclusively to the display of roses.

The Theodore Lyman premiums for twenty-four distinct named varieties of hybrid perpetual roses, three of each variety, were awarded to Jos. S. Fay, John L. Gardner and W. H. Spooner, as first, second and third respectively.

The regular prizes for sixteen, twelve and six varieties were all captured by J. S. Fay, who also took first prize for three varieties, Dr. C. G. Weld and John L. Gardner receiving second and third. For twenty-four varieties, one bloom of each, J. B. Moore and Son were first, John L. Gardner second and W. H. Spooner third. On twelve, six and three specimens premiums were awarded to Dr. C. G. Weld, N. T. Kidder, J. S. Fay, Wm. Patterson, Jos. Brierly and others. For a general display filling one hundred bottles there were five premiums offered, which were won by Mrs. E. M. Gill, J. L. Gardner, Norton Bros., E. Sheppard & Son and F. B. Hayes respectively.

The premiums offered for new varieties introduced since 1888 strangely enough brought out not a solitary competitor. There was quite a hot contest over the silver cups offered by Alex. Dickson & Son, of Belfast, Ireland, for the best twelve Ulrich Brunners, and J. S. Fay was winner of the first and John L. Gardner, of the second.

The special prizes for six Baroness Rothschild were awarded to Wm. Patterson first and F. B. Hayes second, and for six Mme. Gabriel Luizet, to F. B. Hayes first and Dr. C. G. Weld second.

On moss roses J. S. Fay was first, J. B.

Moore & Son second and J. L. Gardner third.

The roses on the second day of the exhibition were of much better quality than on the first day, the fine weather having brought out an improved crop.

The competition on Sweet Williams was quite animated. E. Sheppard & Son received first premium for an unusually fine collection and F. S. Davis second. T. C. Thurlow's collection of peonies and J. H. White's tuberous begonias were very creditable. Temple & Beard showed a large collection of hardy herbaceous flowers, which was specially noticeable for the neat and distinct manner in which everything was labelled.

From Ben. Grey came an interesting group of aquatics which included such rare varieties as Nolumbium speciosum vars. roseum, album grandiflorum and album striatum, Nymphaea marliacea chrometella and marliacea var. albidia, Nymphaea gracilis and N. pygmaea var. helveola.

A resplendent group of orchids occupied the space in front of the stage in the upper hall. The larger part of these was from E. W. Gilmore and contained a number of beautifully bloomed and healthy looking plants, most noticeable among which were a superb Phalenopsis grandiflora, a grand variety of Cattleya Mendelli and good specimen plants of Epidendrum vitelinum majus, Cattleya Mossiae and Odontoglossum Pescatorei. John L. Gardner showed some good orchids also, including a well bloomed Cattleya Gaskeliana and Dendrobium Bensonea.

Among the special attractions of the show was a fine specimen of the lace plant, Oxivandera fenestralis from C. Vanderbilt. This was exhibited in a large tub with incandescent lights under the water, by which means the delicate formation of the leaves was beautifully shown. To this plant a certificate of merit was awarded. A certificate was also given to C. R. Winthrop for three fine plants of the Bend Plant, Nertera depressa.

R. C. Winthrop also secured first prize on six plants of gloxinia and six tuberous begonias.

Honorable mention was given to a new seedling Rhododendron maxima, shown by the Bussy Institution.

W. C. Strong showed a very fine group of seedling perennial delphiniums and a collection of twenty-five Japanese maples, which were much admired.

Among the visitors to the exhibition were Wm. Grey, of Albany, N. Y.; A. T. Boddington, Short Hills, N. J.; and J. S. Cowles and Richard Gardner, of Newport, R. I.

WM. J. STEWART.

IT IS SAID that Washington and Baltimore will work together to secure the 1892 convention of the S. A. F. for one or the other of those cities.



Mr. John Burton has just planted a house of a rose which is sure to become popular when better known.

It is a *sport* from American Beauty. It differs from its parent both in leaf and in the color of the flower. In color it is much lighter than the Beauty. It is a lively pink, without the least suggestion of purple.

Mr. Burton had about a dozen plants on trial last winter, and I watched it very close. With age the flower takes on a lighter hue, but in no instance did I ever notice any indications of that purple shade which is so common in an *off* colored Beauty.

I cannot call to mind any H. P. rose to compare it with as to color, but any person who is interested can see it for themselves next winter, as there are some 500 or 600 plants already in position, for a full and fair trial for next season.

Mr. Burton confidently asserts that it will prove more valuable and useful than either Duchess of Albany or Waban, both of which are sports from old established and standard winter flowering sorts.

Some people would call this piece of good fortune *luck*, but we must not forget that only a keen observer could have secured this precious prize.

EDWIN LOSSDALE.

Long Island Notes.

BY WM. FALCONER.

HOLLYHOCKS.—If you have a stock of good doubles, and the disease bothers you, let your plants ripen and drop their seeds, and if the ground about the plants is clean, loose and mellow, you will soon have a bigger stock of seedlings than you could raise did you save seed and sow them indoors, and with far less trouble.

IRIS KEMPFERI in variety is in bloom. Nothing in the garden is grander. Mr. W. R. Smith, of the Botanic Garden, Washington, when walking among ours the other day, wished me to suggest a new name for them; it was Poor Man's Orchids. And well he might, for they are large and showy as orchids and anybody can grow them.

MANY BLOSSOMS.—Without flowers we cannot have fruit or seed. In the case of trees and shrubs generally a superabundance of bloom is a poor sign of fruit, and this is very noticeable this season in the case of *Xanthoxeris sorbifolia*, *Styrax japonica* and some others which have had extraordinary crops of blossoms, but very little seed is set. Fruit trees, however, are showing well.

ROSE BUGS.—Mr. E. S. Carman finds that water at a temperature of 123 degrees sprayed over the bug infested plants kills the bugs without injuring the plants. This is good news. But as the very air is full of the bugs the operation would have to be repeated hourly to be effective. What we want is an insecticide to spray upon the plants to render them bug proof without injuring the plants.

MIMULUS EMPEROR, a novelty of this year, has been in bloom for some time. It is a hose-in-hose, or duplex flowered variety, said to be brighter in color and more distinctly spotted than the old form. Maybe it is, but there is yet much room for improvement in the size and brightness of its flowers.

VIBURNUM DILATATUM is a Japanese hardy shrub that blossoms early in June. Mr. James Dean, of Easter plant fame, saw it here when it was in flower, and commented: "Of all the things you have got in bloom that's the shrub that takes my eye." His eye was after a new plant for Easter. Still I cannot recommend this *viburnum*, because, like most *viburnums*, its blossoms last only a short time in good condition, and they don't smell pleasantly. On account of its extreme floral profusion, if you hit it right as to time, success would be assured, but miss it by a day or two and your fondest hopes would be blasted.

AZALEA VERRY-ENEANA, page 611.—Mr. Dean calls my attention to the fact that it was from Mr. Maenhout Van Melle, not from Mr. Vervaeke, he bought his azaleas, and that it is Mr. M.'s son who is at work for him taking care of them.

FUCHSIAS.—Catalogue men do a big business in them yet, but florists who grow them into nice blooming stock for market report almost no demand at all for them. And this inappreciativeness seems general.

GOLDEN YEW AS BEDDING PLANTS.—Try them. Among yellow leaved plants, hard to grow, I know of nothing this day so brightly and beautifully golden as these golden yews. They are evergreen shrubs, dwarf, compact, and perfectly hardy with us; they are easily raised from cuttings in fall, and from the time they are two years old forever afterwards they are available for bedding or other garden purposes. We can have them in little balls, cushions, pyramids, or any other forms we please; they are perfectly dense, and need no unsightly pruning in summer. Use them for panels or as single plants studded into your mosaic flower beds. Yews of all kinds are easily transplanted, and if carefully handled you can lift and transplant them every year without impairing their beauty or visibly checking their growth, for they form large mats of fibrous, fleshy roots.

Show Pelargoniums.

For spring blooming in the greenhouse these pelargoniums are among the most showy plants one can grow, and for certain lines of trade they also are valuable. But there is no doubt of one thing, namely, that there is a lull in their popularity. I grow a lot of them and aim to have them in fine form and to come in with the calceolarias in April and last till June, and for this purpose use young plants, that is plants raised from cuttings the previous summer only.

A lady and gentleman, members of McAllister's 400, were here some weeks ago when these pelargoniums were in full bloom. The lady remarked, "I cannot bear the sight of those plants" and the gentleman said, "it always gives me pain to look at them," but another lady who was with them told me she "didn't dislike them at all, indeed, I think they are just lovely." And so opinion runs.

Our market growers raise quantities of them as pot plants in bloom for the spring trade and private gardeners still stick to

them. And Mrs. Berger of California at the last convention told me that these pelargoniums were among the most desirable plants for the Pacific coast trade.

To the mail florist they are invaluable. But let me advise you to get them into your fall catalogues more than into your spring ones. Nice little plants sent out in the fall and potted on once or twice during the winter or early spring will give your customers lovely flowering specimens for April and May. On the other hand little plants sent out in spring are not apt to bloom till the following year. Encourage your customers and keep up their enthusiasm; it will revert to your own pocket after a while. In spring you can always pick up something in the seed line as well as the plant line for novelties for nature starts gardening then and everybody is enthusiastic; but in fall outside of the stereotyped bull list it often is hard to get good seasonable stock to offer. Now try show pelargoniums and *Cytisus canariensis* and its varieties and rest assured you are sending out good things at the proper time.

Show pelargoniums are of the easiest possible cultivation. After blooming cut back the plants pretty well, keep them in an airy, slightly shaded greenhouse or frame or stand them in a sheltered corner out of doors, water them sparingly and let them break slowly. Use the young shoots for cuttings. From indoor or frame plants cuttings strike freely, from outdoor ones not so readily. After the cuttings are rooted and potted give them plenty of room and nip in the growths to make them stocky. Never be too free with water and don't wet them overhead very much and not at all when in bloom. These pelargoniums dislike bright unrestrained sunshine.

Varieties are legion. I like Mme. Thibaut, a strong variety with immense trusses of pink and white flowers; Mme. Gustave Henry, a white flowered form of the last; and Mme. Vibert, also in the same style but with very dark colored flowers. For market pot plants the dwarf compact race of which *La Vesuve* is a good type should also be grown.

W. F.

Pyrethrums.

Appropos of my recent notes in the *FLORIST* about pyrethrums, a florist in Wisconsin writes me:

"I have the double white as large as a gourd as yet now (May 30), coming into flower, but it never comes till June in perfection. It will grow and blossom in the greenhouse. What kinds are they that come into bloom for Decoration day? We have been crazed for flowers the last two or three days, for to-day, the 30th."

* * * It will grow in clumps for two or three years and then generally dies of heat in summer. I can't propagate it except very early in spring out doors; it won't stand the greenhouse heat."

In order to have pyrethrums, phloxes, monardas and other heavily personate plants that grow in tufted clumps in their most vigorous condition, they should be lifted, divided and transplanted every second year; sometimes being transplanted annually is better for them, and, again, many may grow for years without being disturbed, and remain in good condition. Fibrous, shallow-rooting plants need dividing and transplanting oftener and tuberous and deep-rooting plants to be let alone longest. By their overcast or spreading appearance plants speak for themselves when they should be transplanted. Pyrethrums may be lifted, di-



1 Empress of India
 2 Empress Frederick
 3 Princess Alexandra
 4 Princess Victoria

NEW SHOW PELARGONIUMS. CONSIDERABLY REDUCED IN SIZE 17

vided and replanted with safety after the first good soaking rain, about the end of August or in September, and have plenty of time to establish themselves before winter sets in. But early spring is the most natural time for dividing the plants

then growing and rooting is natural, and if done early and carefully and the weather is moist at first, every division should make a good plant.

So far as getting them into flower at Easter is concerned, I get them in then

with no trouble whatever. Like hardy plants in general, pyrethrums must have a long and decided resting period. Lift and pot them in September, and plunge them in a cool place, and winter them plunged in a cold frame, and bring them

into a carnation house in March, a little earlier or later, as Easter may occur, and they will start into fresh growth and blossom quite kindly. Don't force them. Any of the pyrethrums will do this.

W. F.

Davallias.

Several of the members of this interesting and somewhat extensive genus may well be included among those termed useful ferns, their graceful form and free habit of growth being strong points in their favor.

There is also considerable variety to be found in this genus, both in size and shape, some of the species being well adapted for large exhibition specimens while others are small enough to be accommodated in the most limited collection, and many of them are charming when grown as basket plants.

The latter method may possibly find an opening for more ferns as the trade advances (that is ferns grown in baskets), and the davallias will undoubtedly be remembered as such demand arises.

This genus is quite widely distributed, and as a natural consequence the needs of all the species are not alike, but those to which reference will be briefly made in the present notes are all such as will flourish under ordinary treatment in a temperature of 55 to 60 degrees.

The propagation of these plants is effected in the usual ways by division and by spores, some of the latter coming up very freely, while others produce but a limited quantity of young plants, and from which it would seem that these spores sometimes produce an imperfect prothallus, in which fertilization is not completed and in consequence the prothallus dies off instead of continuing its growth into that of a perfect plant. Such a condition may however be merely apparent and not real and is therefore open to doubt.

Undoubtedly the finest of all the davallias is a large specimen is *D. pallida*, better known under its synonym of *D. Mooreana*, its finely divided fronds frequently attaining a length of three to five feet, the color being pale green and the entire plant of very graceful habit. This species is also very pretty in a small state and the fronds last fairly well when cut and placed in water.

The next to this in point of beauty as a large plant is *D. Fijensis*, which is also of strong growth, the rhizomes being frequently as thick as a man's finger and so stiff as to make it somewhat difficult to keep them within the bounds of a pot or pan. The fronds are very dark green in color, finely cut and gracefully arched, the stems being quite stout and clothed with whitish scales or chaff, as are also the rhizomes. Seedlings of this species make both pretty and useful plants in three or four-inch pots and if well grown will stand considerable exposure.

Perhaps the most popular member of the family under consideration is *D. tenuifolia stricta*, now a very well known fern in the trade from the immense quantities that have been distributed of late years. It is comparatively dwarf in habit, the fronds semi-erect and four times divided, dark green in color and frequently having reddish stems, and as a small plant is used with good effect in dinner table work and for window ferneries, though the fronds are somewhat brittle withal.

D. canariensis, though one of the oldest and hardest of the genus, is not so often seen. It has stout rhizomes densely cov-

ered with chaffy scales, and in fact is the original species to which the common name of "Hare's Foot Fern" was applied, though the latter designation is now given to the whole genus. The fronds of *D. canariensis* are bright green in color and triangular in outline, finely cut and of pleasing habit.

Among the more moderate growers *D. dissecta* deserves recognition, it being of rapid growth and making a compact plant with dark green fronds that are quadripinnate in form. This species is an excellent subject for basket culture and also is satisfactory on a fern-pan.

Another that should not be omitted is *D. pentaphylla*, a very distinct and pleasing species, and though not new, yet does not seem as wide-spread as its merits deserve. The fronds of this species are of moderate size, seldom more than a foot long, and pinnate, usually consisting of two or three pairs of pinnae and a terminal segment, the color being dark green and the entire surface glossy. The foliage of *D. pentaphylla* keeps in good condition during winter, and forms a pleasing contrast with that of finer divided species.

Of very small species there are several, one of the prettiest being *D. parvula*, which has slender rhizomes and tiny flabellate fronds of dark green color, the latter being seldom more than two inches high, and produced in a compact, little mass. This is decidedly a miniature fern, and does best in a moderately warm house with plenty of shade.

Another of similar character is *D. alpina*, but having coarser fronds and not so compact in habit as the preceding.

Others of value in this genus are *D. affinis*, which may be said to belong to the same section as *D. decorata*, these having dark green fronds of lasting quality, and about one foot in length, produced from surface rhizomes, and *D. elegans*, the latter bearing some resemblance to *D. dissecta*, though coarser and abundantly distinct therefrom.

W. H. TAPLIN.

Holmesburg, Pa.



DAVALLIA FIJENSIS

Azalea Deutsche Perle.

Regarding this useful white azalea, which we illustrated some time since, the *Gardening World* says:

"The azalea here named is a variety of *Rhododendron indicum*, popularly known as azalea. It is of continental origin, as the name would imply, like so many others, but its own intrinsic merit has enabled it to make rapid headway in British gardens. Where much forcing of flowers has to be done there we find it to a certainty, and it has also found its way largely into market gardens, owing to the many purposes to which it can be put when cut. Some have found the plant not to be of very vigorous constitution in suburban gardens, but with healthy specimens to begin with and care in its culture, particularly when making fresh growth, there is no difficulty in getting perfect satisfaction from it. The statement is sometimes made that the flowers are only of moderate size; but that should be an advantage rather than otherwise, for flowers are often overdone in the matter of size. The striking features of the flowers are their purity of color, the broad rounded character of the segments and the comparatively small number of pieces that go to fill up the center of the bloom. On this latter account the flowers are double without being crowded, or presenting a packed and crushed appearance. For this reason it takes precedence over several other double white varieties that present some defect or other. The substance of the flowers is also good, enabling them to keep in perfection for some considerable time, particularly if the latter are cut with a few inches of stem."

Primula Sinensis Var. Pallanze.

An illustration of this new primula appears in a recent issue of *Moeller's Deutsche Gaertner Zeitung*. The foliage is very deeply fringed and very ornamental, and this strain is said to have a wide



DAVALLIA PALLIDA (MOOREANA).

range of color in the flowers, including white, pink, violet, carmine, light and dark red, and bluish, some of the flowers displaying a large gold-brown eye, sometimes so large as to leave only a narrow colored margin or border.

The wider range of color and the handsomely fringed foliage are the advances claimed for this strain over that introduced a few years since, and which lacked an extended variety of colors and had plain, smooth, lacinated or dentated leaves.

It is being introduced by Messrs. Hillebrand & Bredemecier, Pallanza, Italy.

Catalogue Making.

That seedsman or florist who from chance or through necessity seeks trade beyond his own neighborhood, and appeals to other customers than those he can personally serve and bind to him by friendly converse over his own counter, must have a catalogue. He alone or his clerks can sell to or supply advice to but one person at a time, but each of his well-made catalogues can also fairly serve a customer, and such a catalogue, though it be the cheapest or dearest, is much less expensive than any clerk. It may answer many questions even as well as the proprietor, and can be economically multiplied. I may claim that even the grower or dealer, who is satisfied in serving well his local trade only (would there were more) and is content with its moderate, though certain, livelihood, could profitably issue a pamphlet or primer containing much primary instruction to which many

of his questioning customers might be politely referred, as a copy is presented to them. The more advertising in it the more profitable its circulation, but certainly the information would thus be more thoroughly and accurately given than when given verbally over the counter, and much valuable time saved.

To all those, however, who would go beyond their own counter, a descriptive list is necessary. This book, even if small in size, to be most effective, must in my judgment be descriptive, if not of all stock, then of some few plants, or of one, which must be interestingly told about. If more, of course better, but if space or means do not permit, other items can be named only, omitting descriptions. In size, style, illustrations, etc., I believe the best to be the usual standard of this class; good paper, a good-sized page—do not try to reform fashion with small or odd sizes; one of the oldest and largest firms in the country gave this up after four years' disastrous trials; don't begin it. Don't put too much on the cover. Get your name or—Peter, if it is Peter; John B. is better than J. B. A handle like this is a good thing for your customers' memory to hang to, even if A. T. Stewart didn't need it. All are not Stewarts nor all Astors, who need no signs on their doors. You need to begin early to win that way, and nowadays all of us haven't the time. Next, use two or three general names of what you sell, plants, flowers, seeds, rather than the name of your business, florist or seedsman, and finally the name of your city. It helps fix you and your business in the minds of

your customers. I once knew a Canadian firm to print a large catalogue and omit the name of their city.

If this is to be a book of but few pages, some good thing of your stock or several of a class must be favorably described and illustrated (if possible) on the first right hand inside page. Circulars are so common now that unless a strong bid is made for favor the moment the cover is lifted there is much danger in the direction of the waste basket. One other chance exists to hold attention, namely: Cultural notes or instruction of value. I believe the wise maker of the small catalogue of the future will devote the lower one-third or one-fourth of each page to pertinent and readable instruction in catchy type. Such a book presented in season will be saved. The following pages, as I have said, may be plain lists of stock, but if means permit, everything offered should be described, and of those illustrated at least one good one on each page should be of good size, never small—it is not the fashion. Don't reform the fashion until you get further on. Everything described and each size of it should be given a technical name or title by which it may be ordered. For instance, "Rose Dinsmore, price 20 to 75 cents," will not sell either size; but "Rose Dinsmore, first size, 2½-inch, each 20 cents; *extra large* plants from 5-inch pots, 75 cents." Will sell both. Customers will not mail you orders on uncertain offers. V.

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Coming Exhibitions.

July 22-23, Toronto, Ont.—Flower show Toronto Electoral District Agricultural Society. J. P. Edwards, Sec'y, 146 Wellington St. West.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society. Thomas Vair, Sec'y.

September 8-10, Hartford, Conn.—Fall exhibition Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 2-8, New York.—Chrysanthemum show Madison Square Garden. J. W. Morrissey, Sec'y, Madison Square Garden.

November 3-5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 3-6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club. W. H. Ellis, Sec'y, 133 Mason St., Milwaukee.

November 3-7, Detroit, Mich.—Chrysanthemum show Detroit Florists. Robert Flowerday, Sec'y, 460 John R. street.

November 4-6, Wooster, O.—Exhibition Wooster Floral Club. W. A. Porter, Sec'y.

November 5-7, Erie, Pa.—Chrysanthemum show Erie Chrysanthemum Club. H. Tong, Sec'y.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y, 811 North Water street.

November 10-12, Pittsburgh.—Chrysanthemum show Pittsburgh and Allegheny Florists' and Gardeners' Club. G. Osterle, Sec'y, 508 Smithfield St., Pittsburgh.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society. James Galvin, Sec'y.

November 10-12, Toronto, Ont.—Chrysanthemum show Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School, Toronto.

November 10-12, New Bedford, Mass.—Chrysanthemum show New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.

November 10-12, Washington, D. C.—Chrysanthemum show Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St. N. W.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago. James D. Reynolds, Sec'y, Riverside, Ill.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.

November 11-12, Worcester, Mass.—Chrysanthemum show Worcester County

Hort. Society. Edward W. Lincoln, Sec'y, 5 Oak St.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society. Thos. Vair, Sec'y.

November 11-12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club. W. Wiltshire, Sec'y, 688 Sherbrooke St.

November 11-13, St. Louis.—Chrysanthemum show St. Louis Florists' Club. S. Kehrman Jr., Sec'y, 21 South Broadway.

November 11-13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society. George D. Pratt, Sec'y.

November 11-13, Utica, N. Y.—Fall exhibition Utica Florists' Club. J. C. Spencer, Sec'y.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society. Chas. Wise, Sec'y, Third and Prytania Sts.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club. Dan'l R. Long, Sec'y, 457 Main St.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

November —, Baltimore.—Fall exhibition Chrysanthemum show Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.

November —, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society. Wm. Gammege, Sec'y, P. O. box 155.

November —, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society. Thos. E. Meehan, Sec'y.

November —, New Haven, Conn.—Chrysanthemum show New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 478 Orange street.

Principal Toronto Hotels.

NAME	CAPACITY.	RATE PER DAY.
Queens Hotel Headquarters, 78 to 82 Front St.	300	\$3.00 to \$4.00
Rossini House, King and York Sts.	250	3.00 to 4.00
Walker House, Front and York Sts.	250	2.00 to 2.50
Palmer House, King and York Sts.	250	2.00
Arlington Hotel, King and John Sts.	200	3.00 to 4.00
St. James Hotel, 15 York St. (opp. station)	50	1.50
Albion Hotel, Market Square	300	1.00
Ellott House, Church and Shuter Sts.	150	2.00
Hot'l Metropole, King and York Sts.	75	2.00
Avondale Hotel, Simcoe and Wellington.	50	1.50
Richardson House, King and Spadina.	100	1.50
International Hotel, Front and Simcoe.	200	1.50
Black Horse Hotel, Front and George.	125	1.00
Russell House, 215 Yonge St.	50	1.50
Power House, King and Spadina.	50	1.50
Schiller House, 120 Adelaide St. E.	50	1.00
Lakeview Hotel, Parliament and Winchester	75	1.50
Keach's Hotel, 30 King St. W.	50	(European)
Empress, Yonge and Gould.	120	1.00 to 1.50

The majority of the above hotels are in the business portion of the city, the center of which is about one and a half miles from the convention hall in the Horticultural Gardens. Street cars pass the doors of all of them, making communication between hotel and hall quite easy.

Members wishing to secure accommodation before hand will do well to communicate early with Mr. J. H. Dunlop, 1 McKenzie avenue, Toronto, Ont.

Colors as They Appear in Photographs.

Everyone who has given any attention to photographs has been surprised and oftentimes much disappointed at the unsatisfactory way in which colors are represented. If no thought is given to the photographic values of colors one is pretty sure to make mistakes as to background and other details. For example, if he should arrange a basket with dark blue flowers for a background and light yellow ones for a foreground, in the finished photograph he would find the blue flowers almost white and the yellow ones very dark, just the reverse of the effect hoped for and expected.

To all interested in the photography of flowers, unless they have absolute knowledge of the values of colors, I would suggest that they have some of the most common flowers photographed on a card, as seen in the illustration, as a guide that will save them much annoyance.

An analysis of the illustration may be interesting. The background was white paper. The petals of the field daisy are almost lost, and would be quite so were it not for the shadows they cast; the yellow center is quite as dark as the Crimson King carnation. The Buttercup carnation and Perle rose show different degrees of darkness. The La France is almost white and the Albany shade darker, true to their natural value. The same may be said of the Niphetos and Bride. The Portia carnation comes out nearly as dark as the Crimson King. As a fact of general importance it must be borne in mind that blues come out almost white, purples a little darker and yellows darker still.

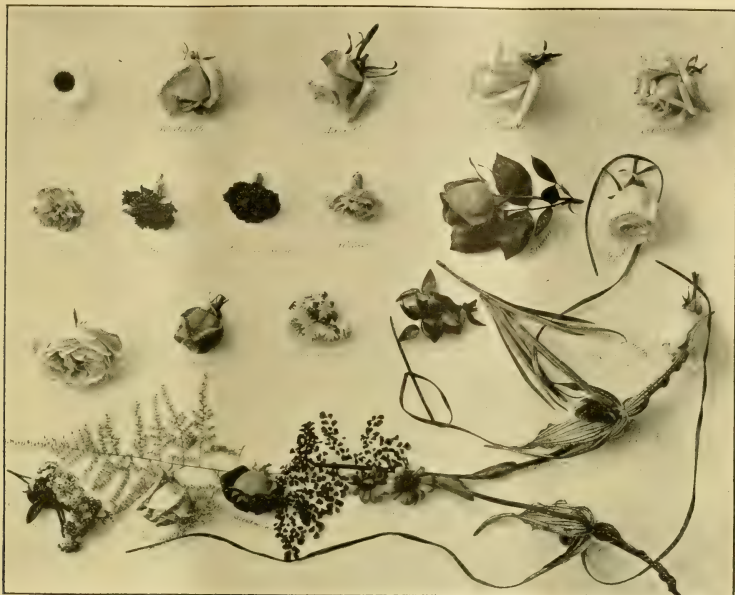
It is better to use Asparagus plumosus with light flowers than it would be to use Maidenhair ferns. For instance imagine a basket or bouquet of La France roses and Maidenhair ferns, which is a beautiful combination, but have them photographed and you have a lot of black spots on white roses. Asparagus would appear much better in the photograph, as the contrast would not be so marked. Maidenhair fern would hardly be seen on a cluster of Portia carnations. Heliotrope you will notice comes out quite light.

There is a process (Auto-Chromatic, I think) which gives the relative value of colors. The effect is very pleasant; for instance take an oil painting representing a brilliant sunset in yellows and reds, by the ordinary process it would be the darkest place in the landscape, but by the newer one the colors would have their proper values and the sunset appear bright. Comparison of pictures produced by the different processes is very instructive. I have asked a number of commercial photographers about the process, but they tell me that it is not yet practicable. I suppose the additional trouble and expense stands in the way of a general introduction. Several amateurs have told me that they have been quite successful in its use.

We have frequently had customers call for flowers that they intended to wear or carry while having their pictures taken. In such cases a knowledge of the photographic values of colors has been appreciated. H. H. BATTLES.

The Arrangement of Flowers.

Mr. F. Schuyler Mathews gives us something to think of surely in his recent valuable and interesting articles. To carry such ideas into execution however we must be free from the hampered methods



COLORS AS THEY APPEAR IN PHOTOGRAPHS.

surrounding our efforts as recounted by Mr. Anthony, and the like of which sad to state are too frequently with us. Can't the retailers get together by themselves at the convention out of session hours and in a meeting shed some light for each other's benefit in trying to overcome such circumstances?

Mr. Mathews is evidently unaware of the fact that buttercups and other wild flowers he mentions wilt so quickly when used with the stems out of water as to be useless to the florist. Beautiful as they are, pond lilies are not available for use at night and weddings are most frequently evening affairs, at which time the nymphs refuse to display those open visions of beauty they present in the day time. Cotton crowded down among the bases of the petals will keep them open somewhat but it don't work any too well and is unnatural.

What thickness of hempen rope would Mr. Mathews suggest for a lover's knot to be twin'd with flowers like Bride and Mermet roses and still have no tendency to clumsiness or stiffness? A. N. C.

Chicago.

Mr. Otto Ristow, of Bowmanville, who in previous seasons has been phenomenally successful with the American Beauty, met with complete failure the past season, not having cut a really good rose of this variety during the whole season, from a house 300x20. But he don't

propose to lay down, and will devote more space than ever to this rose the coming season. Mr. Ristow has invested in 1,500 plants of the Waban rose, which he will grow for cut flowers the coming season. The plants have done splendidly thus far, and promise well.

Mr. Julius Ristow, a brother and neighbor of the preceding, also grows the fickle American Beauty. He has met with moderate success for several years, attaining the best results the past season. This, in connection with the complete failure of his brother this season, the latter having heretofore excelled, is causing the wisecracks to scratch their heads in serious meditation. It would seem that the ways of this beautiful rose are past finding out.

Mr. William Werner, the caterer, has a penchant for dahlias, and now has a remarkable display on his grounds at 91 35th street in the shape of three dahlia plants in bloom at this early date. He states that the dry bulbs were planted out this spring and that they were not started early under glass.

Among recent visitors to the city were J. M. Jordan, of St. Louis; Mr. Bancroft, Jr., of Cedar Falls, Iowa; A. C. Wasson, Hoopeson, Ill., and H. G. Higley, of Cedar Rapids, Iowa.

It was expected that definite action would certainly be taken at the meeting of the World's Fair directory last Friday evening on the appointment of William G. Forsyth, of California, as chief of the

horticultural department, but the committee having the matter in charge, instead of reporting, asked for further time to consider the matter. The comments of the local press are to the effect that this does not mean any good for Mr. Forsyth. It seems to be pretty generally accepted that Mr. Forsyth is simply Mr. Maxwell in a new guise, and that if the former assumed control of the department the latter would practically direct its policy.

Owing to the fact that the date for the quarterly meeting of the Horticultural Society of Chicago falls on July 4, the meeting will be held the following Saturday, July 11. At this meeting Mr. J. A. Pettigrew, superintendent of Lincoln Park, will read a paper upon hardy plants. The meeting will be held at the Sherman House.

The ponds of aquatics at Lincoln Park are rapidly putting on their beautiful summer garb. In one of the lower ponds the Victoria regia is growing like a weed and several of the nymphs are already beginning to bloom. The nelumbiums are filling the center of one of the ponds with verdure and preparing for a burst of floral magnificence later on. Among the nymphs now in bloom are N. Devonienensis, N. Zanzibarensis, N. dentata, N. pygmaea and N. odorata rosea. In the upper and newer ponds, which are much larger and more naturally arranged, the tender sorts are not so advanced, but these ponds will have a charm of their own later on, for on their more naturally

disposed margins Mr. Pettigrew, who appreciates the beauty of our own wildlings, has colonized the choicest of the marsh plants he has gathered during his botanizing trips in northern Illinois and southern Wisconsin. And in the pond itself the yellow blooms of our native lupine are already opening. We shall endeavor to secure a good photograph of these ponds later to place before the readers of the FLORIST.

Our growers are busy now throwing out the old rose stock and replanting. It is noticeable that very few of them are attempting, as they have in former seasons, to carry over bench flowered stock for another season. Experience has evidently taught them the lesson that young, clean stock planted in June or July brings the best results.

We are looking for a better supply of good roses this summer than we have been having in former seasons. A number of growers here planted a couple of houses each with stock suitable for summer flowering, such as Beauties, La France, Perles, Meteors, and Niphetos. This venture will doubtless prove a paying one.

Prices are firm at last quotations.

Graduating exercises are practically finished for the season. Last week witnessed the closing of our public schools. The demand for baskets and bouquets for the occasion was quite active, but the supply of flowers was equal to the demand, with the exception of good red roses.

Speaking of red roses, there are practically none in the market. Jacqs, Gontiers, and Woottons, what is left of them, are perfectly worthless. But we are glad to see a few Meteors coming in, cut from young stock, which promises to be very fine. Meteor, by the way, whatever may be said against it, as a winter rose, is going to be the red rose for summer. The flowers we have seen here so far are of excellent color, and the plants from mid-west. Meteor is a good keeper, and as such will prove a favorite to the retailer. Why isn't this rose more widely grown for summer flowers?

Philadelphia.

Wanted: A new bottom for business, the old one having dropped out, and it will take about three months to repair it, at least that is the general impression hereabouts.

La France, Brides and Perles are now the leading roses, they are worth from \$3 to \$5 a hundred and are very poor.

Growers generally are busy tearing out the old stocks of roses and getting ready for the next season.

Messrs. A. L. Pennock & Son have recently constructed a rose house 200 feet long, almost entirely of iron and glass, the only wood used being in the cap or peak and the doors. The sills are brick on a stone foundation, all laid in cement. This house is furnished with their new counter balanced ventilator, which can be raised the entire distance at once by simply grasping the handle with the finger and thumb.

Mr. W. K. Harris has his new establishment well under way, five large houses are ready for the glazing. When completed this will be the largest range of glass in Philadelphia. Roses for cut blooms, carnations and pansies will occupy the benches the coming season. Mr. Harris makes a specialty of rubbers and his stock of all sizes is very fine.

Mr. Walter Coles has sold out his interest in the firm of Coles & Whitley to his partner. Since the partnership was ef-

fected some three years ago the firm has done a good business, but Mr. Coles is ambitious and in addition has contracted the western fever; it is a severe case. June 26 saw him depart for that wild and woolly region. We wish him success and shall watch eagerly for some word when he shall finally cast his anchor.

Myers Bros. are erecting a large house for carnations, etc. at Chestnut Hill near Messrs. Lonsdale and Burton.

The legislature having adjourned Mr. Burton can now be seen at home with his sleeves rolled up and at it just as hard as ever. John was never afraid to speak his mind when he thought he was right, but his "eyes and noses" are now very clear and distinct and more effective than ever.

We like the way those folks up in Toronto are talking. It looks like a good time. The necessary committees have been appointed by the Florists' Club to attend to transportation, etc., and we believe the Philadelphia delegation will be large and enthusiastic.

A new billiard table has been placed in the club room, which these hot summer days is the coolest place in the town. Anderson again won the medal in the bowling contest for June, with a score of 494 in three games. R.

Buffalo.

On Wednesday a modest but pretty church wedding decoration was arranged by Long, only wild fern clumps on their roots, wild Marguerite daisies and pink peonies being used. The critics called it lovely.

Since J. H. Rebstock occupies structures on some leased ground which are overtopped by horse chestnut trees and to the removal of which the property owner won't consent, he annually comes to the conclusion that double thick glass is cheaper than single. The former withstands the velocity of the dropping fruit without breaking, while the latter does not. Can't our indefatigable Esler come to the rescue in such cases with a chestnut pulp?

Last week during two days and for a consideration D. B. Long devoted his large eight foot show window in a line of fresh flower decorating to advertising a season of summer opera. It attracted the crowd on the outside.

Greenfield of Westfield has sent in some good spikes of *Brenchleyensis gladiolus* during the past few weeks.

A fine wedding decoration was made recently by Wm. Scott and D. B. Long. The former made a fine arrangement of palms and hydrangeas in front of the tall mirror in the parlor and which served as a background for the bridal party at their reception. Mantels were decked with roses and adiantums. A large crystal chandelier was draped with *Asparagus plumosa* with fine effect and the stair rail garlanded heavily with smilax and white blossoms. In the center of a large tent which served as a supper room stood the round bride's table ten feet in diameter. The center piece on this consisted of a two foot through center of white roses, circled with a band of adiantums in growing plants. Outside these in turn followed six sections, are shaped, on each side; so outward extending points were formed at place of their juncture. These sections were made up alternately of Brides and Mermets, and completed a graceful and harmonious effect. Over the table extended a chime of five floral bells, the inside of each being pink, the remainder

pure white. The walls of the tent were covered with a light pink tinted fabric. The white roof showed off to advantage the overhead decorations of laurel roping, which were used profusely. Bunches of pink peonies were placed at points of looping up the garlands at the sides of the tent. White and pink in colors, besides natural green only being employed, there was no clashing or quarreling of colors. A bold effect, in harmony with the large surroundings, and at the same time toned in style, was produced.

L. B. D.

Boston.

The annual grammar school festival occurred on Saturday, June 27, at Mechanic's Hall. Twenty-six hundred bouquets were presented to graduates under the supervision of the school committee. The stage was prettily decorated with hydrangeas and palms by Norton Bros. The twenty-six hundred bouquets, the contract for which had been divided up among a number of the florists, were arranged in a huge bank at the back of the stage, forming a most brilliant picture. Half the floor and the balcony sides were occupied by the graduates, seated in companies representing each school, while the remaining seats and all available standing room in the immense auditorium were all taken up by the proud fathers, mothers and friends. The presentation of the bouquets by the mayor was a most interesting sight. Music, ice cream, and dancing followed, and everybody was happy.

The cut-flower trade has been unusually good for the season, with a steady demand for everything of good quality in the rose line. Carnations and sweet peas are very abundant, and with white pond lilies form the principal stock in trade of the street fakirs at present. Pink pond lilies are in great demand, and have come to be one of the standard articles in the summer supply here. They are unusually perfect this year. Gloxinias, coreopsis, bachelor's button, sweet sultan and irises form a large part of the decorations of the florists' windows. These summer flowers are bright and attractive, and at the same time cheap. Smilax is once more plenty.

The regular weekly shows of the Massachusetts Horticultural Society commenced on July 11, and will be held every Saturday until August 29, inclusive.

A certificate of merit was awarded to J. C. Hovey on June 27 for a very beautiful peony, a seedling raised by John Richardson. The peony is called Milton Hill. Its color is a soft, delicate flesh pink.

W. J. S.

Toronto.

Convention matters are progressing favorably. All the principal hotels have been "seen" and arranged with, and a map of the city indicating their location has been gotten up and other matters in connection with entertainments, etc., are assuming definite shape.

I omitted to mention in my last communication that Mr. John Thorpe, of Pearl River, N. Y., had honored this city with his presence for the space of ten days and was for the greater part of that time the guest of our park superintendent, Mr. John Chambers. Mr. J. C. has been intimating Mr. J. T. into the mysteries of the city, and if I may be allowed to give those members of the S. A. F. who like a good dinner a hint, I should tell them to keep an eye on Mr. J. T. I suppose Mr. J. T.

will probably relate in the FLORIST, for the benefit of those who are anxious for information with regard to this country, his experiences in the wilds of Canada.

Mr. William Houston, gardener at the Central prison here, has gone in for aquatics this year, and has planted a circular pond over sixty feet in circumference with a lot of the choicest nymphæas, etc.

The flower show to be held in the Horticultural pavilion the 22d and 23d of July by the Electoral District Society promises to be the best of its kind ever held in the city. Perhaps some of our American brethren who do not live too far away could take a run across the line at that time. I venture to think that some of them would rub their eyes in wonder at some of the plants that will be exhibited.

About a dozen of the Toronto gardeners and florists took in the rose show at Hamilton on the 23d ult., which was under the able management of Mr. F. G. Foster. Some very fine collections of hybrid perpetuals were shown. Under the guidance of one rejoicing in the euphonious cognomen of Simon Peter Stipes the Toronto "boys" took in various other things, too, and had a good time generally. E.

Hamilton, Ont.

The Gardeners' and Florists' Club of this city held their first show of roses on June 23. Owing to extreme heat it was thought advisable to alter the date from the 29th, as announced, to the 23d. The show, although not a financial success, was such as to encourage the officers of the club to hold a larger one next year. The display of H. P.s was very creditable, comprising over 100 varieties, but Teas or indoor roses fell short, owing to the extreme heat. We had two very good show exhibits from Toronto, L. H. Dunn and Spears & Munton; both had very fair roses of the leading kinds and some first class carnations, especially the Wilders, flowers good and color grand.

The boys came up in force from Toronto; among them were our vice president, J. Chambers and A. Ewing, secretary of the G. and F. Club, of Toronto. The judges were Geo. Vair, of Toronto, and T. H. McKenzie, of Dundas.

The principal prize takers were, for 50 distinct H. P.s, 1st T. Burner, Hamilton, 2nd A. Goodall; 24 distinct H. P.s, 1st T. Burner, 2nd A. Goodall; 12 distinct H. P.s, 1st A. Alexander, 2nd W. Calder, 3rd J. Cape; 6 distinct H. P.s, 1st H. Berry, Burlington, 2nd Dr. Richardson, Burlington, 3rd A. E. Alexander, Hamilton. In Teas, J. W. Fox, gardener to A. G. Ramsay was the only competitor, taking 1st for 12 varieties. He also put up a very good collection not for competition. F. G. FOSTER.

The Society of American Florists holds its seventh annual meeting at Toronto, Ontario, August 18, 19, and 20 next. It will be a good meeting, and you ought to attend. Further, if you are not already a member of this society you ought to be, even if you cannot attend the convention. The society is working for the best interests of everyone in the trade. That includes you, and you ought to be a member of such an organization.

The St. Louis Florists' Club will give a chrysanthemum show November 11 to 13 next. Full information may be had on application to the secretary, Mr. S. Kehrmann Jr., 21 South Broadway, St. Louis, Mo.

Mr. ALFRED FORDER, Walnut Hills, Cincinnati, was one of the unfortunate whose houses were in the track of the recent hail storm. His loss was \$86 worth of glass, but as he had a policy in the Florists' Hail Association he has cashed a check for that amount, sent him by the treasurer of the association, and is now fixing up his houses. Mr. Forder writes that he is much pleased with the prompt settlement of his loss and can't understand how any florist can be so reckless as to go without protection when it can be secured at such a slight outlay through the medium of the association. He adds: "Could they see the wrecks around here just now they would not wait a minute."

CAN a grower produce good geraniums in four-inch pots, and make a living profit by retailing them at \$8 a hundred? In answering this please bear in mind that before there can be a profit the expense of marketing, interest on money invested, wear and tear on your houses and tools must be deducted in addition to ordinary running expenses.

THE Rhode Island Horticultural Society has issued a premium list for the chrysanthemum show next November. Copies may be had on application to the secretary, Mr. C. W. Smith, 55 Westminster street, Providence, R. I.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words an insertion). Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By single young man, as all-round greenhouse hand; steady and sober. G. SPENCE, box 55, Knoxville, Tenn.

SITUATION WANTED—By young man in florist business; well up in general greenhouse work. Address: N. H. J. Williams, N. Y.

SITUATION WANTED—As head gardener by a single man, age 37, who understands his business. First class testimonials. Address: J. J. Williams, N. Y.

SITUATION WANTED—A live young man wishes to obtain charge of sale place; 12 years' experience, last two growing for the Boston market. Well recommended. Send particulars and receive salary. P. O. Box 81, Brookline, Mass.

SITUATION WANTED—As florist or nurseryman. S. Can do all kinds of nursery work in all its branches, such as budding and grafting. Able to take charge of men; 20 years' experience. Address: H. M., care American Florist, Chicago.

SITUATION WANTED—As foreman in a place where roses are wanted. H. P.s and teas of first quality, and florist stock in general. Sober, honest and capable. Address: O. D. H. Hort. Hall, Broad St., Phila., Pa.

SITUATION WANTED—By experienced florist, to take charge of private or commercial place; thoroughly experienced in all branches. Age 29. First class references. Address: J. J. Williams, N. Y.

SITUATION WANTED—By a first class florist; German raised; good rose grower; experienced in greenhouse plants, orchids, palms and ferns. Best of reference for commercial work. Address: J. B. and A. N. Boet, 100 Bromfield St., Boston, Mass.

SITUATION WANTED—As head gardener, by a German; single, age 33; experience of 23 years in propagating and growing roses, carnations, stove, and bedding plants; would take commercial or private place; can furnish good references. Address: O. E. care Williams & Co., 100 Bromfield St., Boston, Mass.

SITUATION WANTED—By a practical gardener, manager or head in private or commercial place; well experienced as propagator of roses, carnations, palms and all kinds of greenhouse and bedding out plants; No. 1 landscape gardener; well skilled in stove plants, growing of grape vines, vegetables, etc. Over 40 years' experience. No. 1 references. Address: CHAS. LONGSTAFF, 20 Jefferson St., Rochester, N. Y.

SITUATION WANTED—By practical, trustworthy gardener, as general manager of private or public grounds or large commercial plant; thoroughly experienced in all branches; particularly qualified in roses, and florist stock in general. Rock-work and landscape gardening; unequalled in stove plants, palms and orchids; a successful hybridizer; 30 years' experience; sober. A first class plant grower. Address: J. B. and A. N. Boet, 100 Bromfield St., Boston, Mass.

WANTED—1000 feet of 1-inch hot water pipe and fittings. Cash for same. J. H. CUNNINGHAM, Delaware, Ohio.

WANTED—Boiler, second hand; Hitches, Myers, or similar make; capacity 3,000 feet. BOX 137, Maywood, Ill.

WANTED—A second-hand hot water heater and some pipe. Good condition. Price, make and price. L. I. PILLISCHY, Macomb, Ill.

WANTED—An experienced man to assist in greenhouse work. State age and wages. German preferred. Steady place. Address: N. BOMMESCHACH, Decatur, Ill.

WANTED—To correspond with nurserymen who wish to try G. L. Grant's new and good way to sell nursery stock. McGOVERN, Washington County, Pa.

WANTED—A first class orchid, palm, fern and stove plant grower. State age and wages. Must be satisfactory, none other needed apply. Address: R. J. MENDESBALL, Minneapolis, Minn.

WANTED—An honest, energetic, well posted, single man, with or without money, to take interest in greenhouse and gardening business. A good place for a good man. Address with references, COL. W. H. GREENHOUSE, CO. Columbia, Tenn.

WANTED—Floral artist. Position will be vacant October 1st. Must be skillful, quick and of pleasing address. A good situation for a good man, none other will be considered. Give references and salary expected. Address: A. M. & J. H. NICHOLS, Pittsburg, Pa.

WANTED—A good greenhouse worker; must understand the business; must be sober, industrious and well qualified; single man preferred; good position and wages offered. Give references and wages expected. Address: J. M. MENTZ, 655 Broad St., Newark, N. J.

WANTED—A first class flower grower for retail market in a pleasant location within the city of Chicago. Must be strictly temperate, able and willing to work. Man with small family preferred. Steady employment and good wages. Address: ILLINOIS, care American Florist, Chicago.

WANTED—Several competent men. Good place for men educated in one or more departments of ornamental business. Propagating, rose growing, palms, orchids, roses, violets, bulbs, etc. for cut flower and decorative purposes. Address: J. T. WILLIAMS, Proprietor LaRose gardens, Memphis, Tenn.

WANTED—For a fine wholesale and retail place, 4000 ft. of glass, in Chicago; a single or married gardener not afraid of work, and able to grow choice plants in quantities. Must be a man for a foreman if satisfactory. Wife of married man to take charge of the household. Wages, references, etc. Address: J. J. Williams, N. Y.

FOR SALE—2000 feet of 1-inch pipe and fittings, used six months, \$2 a foot, fittings half price. A. F. CHAS. 455 E. Division St., Chicago.

FOR SALE—1000 feet of 4-inch pipe; also one No. 10 boiler. Address: WM. A. BUCK, North Cambridge, Mass.

FOR SALE—\$100 cash buys 5,000 feet of glass, Devereux water boiler, good stock, good trade, and long lease of 100 miles of central Illinois. Address: F. E. care American Florist, Chicago.

FOR SALE—On account of sickness, lease and stock of florist's place; elegant location; only \$500; rent \$10 per month. Address: E. LAMBERT, 563 N. St., N. W., Washington, D. C.

FOR SALE—4,000 feet 1-inch hot water pipe, almost new at 5 cents per foot; also four Myers boilers in good condition. BILLIER & BLAKEBOURGH, 5670 Germantown Avenue, Philadelphia, Pa.

FOR SALE OR RENT—Large greenhouse, new, stocked for cut flowers, hot water heat. To good man with small capital will rent for \$200 per year. 2 miles from Baltimore and at railroad station, 10 acres of soil. A rare chance for a live man. Address: JAMES PAGE, 105 W. First St., Baltimore, Md.

FOR SALE OR RENT—The old well established florist business of J. H. Campbell & Sons. About 20,000 feet of glass with hot water heat. Reason for selling is that rare chance for a live man. Address: 3501 Germantown Ave., Philadelphia.

FLORIST BUSINESS.

FOR SALE CHEAP—On account of ill health the owner will sell the whole for small cash deposit, the balance of purchase money on easy terms in 12 months. Consists of 1000 sq. ft. of glass (17,000 feet), handsome two-story dwelling, stable, etc., situated at Flatbush, near Brooklyn City Hall. Rare chance for a live man. Walk of horse cars and railroad station. For full particulars address: ANDREW HARTSH, Flatbush, L. I., N. Y.

FOR SALE.

My dwelling, 2-story, 8 rooms and bath room, large barn and four greenhouses heated with steam and hot water—all told about 5,500 square feet of glass. All situated on 800 ft. of coal land, and of 500 feet deep, surrounded by three streets. Price \$10,000. Doing a business netting 6 to 8 per cent. on total capital. Good reasons for selling. Correspondence solicited, or on place. Address: GEO. A. KUHLE, PEKIN, ILL.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.00 Column, \$1.50;
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 lines, 5 per cent; 13 lines, 10 per cent;
26 lines, 20 per cent; 52 lines, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

EXPRESS RATES.

Some action should be taken at the coming convention of the Society of American Florists looking to an equitable adjustment of express rates on shipments of plants. These rates are frequently absurdly high, especially on short distances and are a serious embargo upon trade. Plants, if properly packed, can be carried by the companies at as low a cost as any other class of freight, and if the facts were placed forcibly, clearly, and authoritatively before the companies, we feel assured that great good would be accomplished. As it is now, very frequently florists who would buy from growers at a distance, when they run short themselves on certain stock, are kept from doing so by the fact that the excessive express charges renders it an unprofitable transaction for them. We have heard of cases where florists have discouraged orders from customers after their own stock was exhausted, when plenty of the plants wanted were to be had at a comparatively short distance away, simply because the express charges added 50 per cent to the cost of the plants and destroyed any chance of profit.

We cannot expect the express companies to adjust these matters of their own accord. And they will not make any move in the matter unless it can be shown that such a move will result to their own financial benefit. This is quite natural. They are carrying freight to earn dividends, and not for glory. But we can show them that with an equitable arrangement of their rates the number of shipments will increase to such an extent as to make the net returns to them from this traffic larger than it now is. This kind of talk will be listened to, and if properly backed up, will be acted upon.

One disadvantage that we have labored under in the past has been the lack of statistics to show the magnitude of the business and of the shipments made. This drawback the last census has removed. We can now present in evidence the figures the government has compiled. We can now say: "Gentlemen, during the census year we prepaid express charges to the amount of \$554,390.55, and the estimated freight and express bills on our outgoing shipments (nearly all express) amounted to \$1,086,904.60, a total of over a million and a half of dollars in one year. This in spite of the fact that we have been handicapped by high express charges. If these rates were reduced an average of one-third the shipments would increase from 50 to 100 per cent the first year and continue to rapidly increase, from the impetus thus given to the business."

The men in charge of the affairs of express companies are business men. They are amenable to reason, and when a fair proposition of this kind is made to them

they will listen to it. But they won't realize the exact condition of affairs until it is brought to their attention in a proper manner. Individuals can accomplish little, but the accredited representatives of a great national organization like the S. A. F. can accomplish much if they are the right sort of men and work in the right way. Results will not come in a moment. It will take time and effort and some expense, too. The men who should be on this committee are men whose time is valuable. Men who cannot make their time valuable to themselves can mightily rarely make it valuable to anyone else. It will be asking considerable of these gentlemen to not only devote their time to the matter, but to also pay out of their own pocket any expense incurred, hence the society should appropriate a sufficient sum for this purpose, so that the work may be done well and no stone left unturned.

The American Association of Nurserymen secured through such a committee and an expenditure of a few hundred dollars, reductions in freight rates on nursery stock that saved hundreds of thousands of dollars to the nursery trade, and at the same time immensely stimulated sales of nursery stock. Our cause is equally as just as theirs, and we can feel reasonably certain of as favorable a result of our labors if we go at it in the right way.

THE Florists' Club of Washington, D. C., has issued a premium list for the chrysanthemum show to be held November 10 to 12 next. In addition to chrysanthemums, prizes are offered for orchids, roses, violets, carnations, decorative plants, and floral arrangements. Copies of the list may be had on application to the secretary, Mr. G. W. Oliver, 1844 Eighth street, N. W., Washington, D. C.

IF YOU are not a member of the Society of American Florists send \$3 now to Secretary Wm. J. Stewart, 67 Bromfield St., Boston, Mass., and ask him to add your name to the membership roll. If you are unable to attend the annual convention you will still get more than your money's worth in the printed proceedings, a copy of which is sent to every member soon after the meeting.

PLEASE send us samples of any advertising matter you get up for your coming exhibition. If every club or society will originate one novel and feasible idea in the matter of advertising exhibitions, a combination of all ought to result in something good. Don't hide your light under a bushel. Speak up, and tell us all what you are doing.

TORONTO rejects the porridge and coffee idea. She proposes to entertain, not so elaborately as some of the larger cities, but in accordance with her resources. We predict that the Toronto convention will be as enjoyable for the pleasure seeking members as it certainly will for those who follow closely the work of the sessions.

THE TRADE will soon be unable to count Mr. H. G. Higley, of Cedar Rapids, Iowa, among its members. He is closing out his seed and greenhouse business preparatory to trying another line, and is now traveling through the southern states in search of a climate and a business opening to suit.

Catalogues Received.

J. L. Dillon, Bloomsburg, Pa., roses; Hulsebosch Bros., Overveen, Holland, Dutch bulbs; Hillebrand & Bredemeier, Pallanza, Italy, seeds and bulbs.

News Notes.

DANVILLE, ILL.—F. Anker, the florist, is reported insane.

INDIANAPOLIS.—Mr. John J. Keller has retired from the florist business.

BRADFORD, PA.—G. L. Graham is starting into business here with two large rose houses, on Jackson Ave.

TAUNTON, MASS.—In spite of the threatening weather the rose and flower show June 20 was a decided advance on that of last year. A very excellent display was made.

BALTIMORE.—Some difficulty is being experienced by the committee from the Gardeners' Club in securing a hall of sufficient size for the chrysanthemum show next November. As soon as a hall is secured the exact dates for the exhibition will be decided and the same announced in these columns.

ADRIAN, MICH.—Nathan Smith & Son are adding three new houses, each 100x20. This addition gives them a total of 18,000 feet of glass. The whole place is heated by steam from two large boilers, and the houses are provided with all the latest improvements in ventilators, apparatus for watering, distribution of liquid fertilizer, etc.

BAY CITY, MICH.—It has been decided to permit the various churches to erect booths in the hall at the time of the chrysanthemum show of the Bay County Hort. Society. The daily *Tribune* is taking much interest in the exhibition and gives frequent reports on the progress of the preparations. It is also publishing from time to time seasonable notes on the cultivation of the chrysanthemum prepared by Mr. John Irvine, our leading florist and president of the Horticultural Society.

SPRINGFIELD, O.—Wittenberg College is in great luck. In addition to a \$30,000 endowment by a former resident of this city, Dr. J. H. Stuckenberg, the well known pastor of the American Chapel in Berlin, has presented the college with a remarkably fine botanical collection, consisting of about twenty-five hundred botanical specimens, representing the flora of the world, and handsomely mounted. This collection was well known in Germany and was secured by Dr. Stuckenberg from the collection of an eminent German botanist, now deceased. It is stated that Harvard College was anxious to get it, but Dr. Stuckenberg preferred giving it to Wittenberg.

LOUISVILLE, KY.—A chrysanthemum show the coming fall is on the tapis here. It is proposed to follow to some extent the lines of the floral and musical festival at Detroit last year. The florists are taking hold of the matter with enthusiasm, and subscriptions are being solicited with the view of putting the affair on a sound financial basis. It is proposed to turn over the net proceeds to some local charity or to a fund for the building of a music hall. Every subscriber for a certain amount will be given a season ticket to the exhibition. November 2 to 7 is the date set. Nanz & Neuner have just completed a new rose house 20 x150. The glass is 12x18, and the house is heated with hot water. The house will be used for the growing of American Beauties.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.
Please mention American Florist.

KENNICOTT BROS. WHOLESALE FLORISTS.

27 Washing'on Street, CHICAGO.
All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. 32- WIRE WORK A SPECIALTY.

A. L. RANDALL, (Successor to C. H. FISK), WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES.

116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.
Mention American Florist.

E. J. HARMS, Wholesale Dealer in CUT FLOWERS, And Florists' Supplies.

39 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

O. W. Frese, Wholesale Cut Flowers, 66 Wabash Ave., CHICAGO.

All Flowers in season. Prompt attention
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13th and Chestnut Sts.,
PHILADELPHIA.
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The Western Trade Solicited.

Write or Telegraph.

SMITH FLORAL CO.

77 7th Street S. - Minneapolis, Minn.

Palms and Dracaenas.

The largest stock in the west, at \$5.00 per 100 to
\$1.00, \$2.00 to \$10.00 each. Cycas revoluta, 50c to
\$5.00 and \$15.00 each. Cycas leaves 25c to 50c each.
DRACENA INDIVISA AND VEITCHII,
3-inch pots, strong, 15 to 18 inches, \$3.00 per 100.
Send for wholesale price list and descriptive cata-
logue.

W. J. HESSER, Plattsmouth, Neb.

THE
EMERSON
PATENT BINDER
Price postpaid
75 CENTS.
Address
American Florist Co.
CHICAGO.

Showing the
appearance of
the Binder when
quite full of

THE
AMERICAN FLORIST.
Every subscriber
should have one.

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Wholesale Markets.

Cut Flowers.

	BOSTON, June 30.
Roses, fancy	4.00 to 5.00
" Out-of-door	2.50 to 6.00
Carnations	.50 to 1.00
Tuberose	1.00 to 1.50
Mignonette	.50 to .75
Valley	3.50 to 4.00
Callas	12.00
Gloxinias	2.00
Coreopsis	1.00
Pink pond lilacs	8.00
Spiraea	2.00
Adiantum	1.00
Smilax	12.00 to 15.00
Asparagus	50.00

	NEW YORK, June 30.
Roses, Beauties	2.00 to 15.00
" Perles, Gontiers	1.00 to 2.00
" Nipheas, Soures	1.00 to 2.00
" Marmets, Brides, Cousins	1.00 to 3.00
" Watville, Hostes	1.00 to 3.00
" La France, Albany	2.00 to 5.00
" Woottons	1.00 to 2.00
Carnations, long	.50 to .75
Mignonette	.50 to .75
Smilax	10.00 to 15.00

	CHICAGO, June 30.
Roses, Am. Beauties	3.00 to 15.00
" Jacqs	6.00 to 8.00
" Marmets, La France	3.00 to 5.00
" Brides	3.00 to 5.00
" Nipheas	3.00 to 4.00
" Watville, Hostes	3.00 to 4.00
" Bon Silences	2.00
Carnations, long	.25 to .50
Carnations, short	.50 to .75
Valley	2.00
Callas	10.00 to 15.00
Smilax	20.00

	PHILADELPHIA, June 30.
Roses, Beauties	10.00 to 20.00
" Laines, Luets	15.00 to 25.00
" La France, Albany	4.00 to 5.00
" Marmets, Brides	3.00 to 4.00
" Hostes, Wootton	3.00 to 4.00
" Perles, Nipheas	2.00 to 3.00
Valley	4.00
Sweet peas	.50
Adiantum	1.00
Smilax	15.00 to 20.00

WM. J. STEWART, Cut Flowers & Florists' Supplies

WHOLESALE.

37 Bromfield Street, BOSTON, MASS.

Mention American Florist.

N. F. McCARTHY & CO.

Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also exchange from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carna-
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Special long stem Rose Boxes,
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Price, 35c per 100 sets, packed, F.O.B. Chicago. All
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New and

Rare Plants

Hardy

Plants.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

A FRESH CONSIGNMENT OF

MEXICAN ORCHIDS

Such as *Laelia anceps* (winter bloomer), *Laelia*
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reticulatum majus, *Odontoglossum aureum* (true),
Odontoglossum maculatum, *Oncidium ortho-*
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Write for price list.

FREDERICK MAU,
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ORCHIDS. The finest stock in the WORLD. Nearly five acres devoted to their culture.

SANDER'S,
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Thirty minutes from London.
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FORCING BULBS,

Hyacinths, Tulips, Daffodils, Narcissus, Lilies, Lily of the Valley, Etc., Etc.

ORDERS SHOULD BE SENT WITHOUT DELAY.

We find some of our clients often wait too long in sending their orders.

SEGERS BROTHERS,
WHOLESALE BULB GROWERS,
LISSE, Haarlem, HOLLAND.

**GARDINER'S
BULBS**



DIRECT CONSIGNMENTS FROM FRANCE,
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WE can give you the inside
track on forcing bulbs,
both in quality and price.
Write us at once. Special
Wholesale Price List now
ready. Don't fool with poor
stock. Get your supplies from
us.

J. GARDINER & CO.
BULB GROWERS AND IMPORTERS,
PHILADELPHIA, PA.

SPECIAL LOW PRICES

— ON —
Lilium Harrisii, Longiflorum, Candidum, Roman Hyacinths, Paper White Narcissus, and all other kinds.

DUTCH HYACINTHS, TULIPS, CROCUS, SPIRÆA, LILY of the VALLEY, AZALEA INDICA, ROSES, ETC., ETC.

Wholesale price list on application to
HULSEBOSCH BROS.,
P. O. Box 3118. NEW YORK CITY.

The only Dutch Bulb Growers of whose firm there resides a member in New York, to conduct the business. So that we can be reached always.

BULBS. BULBS. BULBS.
CHINESE NARCISSUS.

Order Now if you wish to secure
BEST GOODS at LOWEST PRICES.
AURATUM, LONGIFLORUM, RUBRUM, KRAMERI, ALBUM, ETC. CALIFORNIA BULBS.

We guarantee you best stock at the most reasonable rates if ordered now.

Australian Palm and California Flower Seeds.
Send for our Newest Trade Price List.

H. H. BERGER & CO.,
P. O. Box 2323, SAN FRANCISCO, CAL.

DAFFODILS FOR FALL DELIVERY.

We have had no frosts or snow in South of Ireland as in Holland and South of England; therefore Bulbs are very promising. Wholesale lists post free, and July delivery guaranteed. Collection complete and prices very moderate.

WM. BAYLOR HARTLAND, F. R. H. S., Seedsmen,
CORK, IRELAND.

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HERMAN BUDDENBORG,
HILLEGOM, near Haarlem, HOLLAND,

WHOLESALE GROWER OF ALL KINDS OF

DUTCH BULBS AND ROOTS

Inform all intending purchasers that it will pay them to write for his wholesale price list. Special prices will be given to large importers on application. Prime quality at the very lowest prices is guaranteed by

HERMAN BUDDENBORG,
WHOLESALE DUTCH BULB GROWER,
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HYACINTHS, TULIPS, SPIRÆAS,
FREE OF DUTY NOW.

1851. P. VAN WAVEREN, Jz. & CO. 1891.

AMERICA NURSERIES, HILLEGOM, HOLLAND.

Beg to announce to the trade their Price List is ready, and will be mailed free on application to their Agent in the U. S.

C. H. JOOSTEN, 3 Coenties Slip, NEW YORK.

R. VAN DER SCHOOT & Son,
HILLEGOM, HOLLAND,

Largest Growers of

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.
HEADQUARTERS FOR FORCING BULBS.

Wholesale Importers should write us for prices
OUR NEW TRADE LIST NOW READY.

The Rose and the Gardener.

We have pleasure in quoting the following charming poem, by Mr. Austin Dobson, from Mr. A. H. Miles' well-edited *Poets and Poetry of the Century*, recently published by Hutchinson & Co.:—

A FANCY FROM FONTENELLE.

De Manetiez de Roses on n'a point vu mourir le Jardinier.

"The Rose in the garden slipped her bud,
And she laughed in the pride of her youthful blood;
As she thought of the gardener standing by—
'He is old,—so old!—And he soon must die!'

"The full Rose waxed in the warm June air,
And she spread and spread till her heart lay bare;
And she laughed once more as she heard his tread
'He is older now! He will soon be dead!'

"But the breeze of the morning blew and found
That the leaves of the blown rose stirred the ground;
And he came at noon, that gardener old,
And he raked them softly under the mould.

"And I wove the thing to a random rhyme,
For the Rose is Beauty, the gardener, Fate."
—*Gardener's Chronicle.*

The Rise and Fall of the Princess Beatrice.

An eastern rose grower who was phenomenally successful in growing the W. F. Bennett thought he had a bonanza when the Princess Beatrice was introduced to American growers. He thought that a rose produced by the originator of the Bennett must naturally be a "rattler." He invested heavily, and gave a household his very best attention for a season. The writer happened that way then, and after inspecting the Bennett houses, asked: "How are the Princess Beatrice progressing, Mr. Blank?" "You'll find her in the next house," said he, "underneath the parson's I put over her to keep the sun from spoiling her complexion." And looking in we discovered that in supreme disgust with the rose he had built a bench over the bed and left the poor plants to lapse into rubbish. But her "complexion" was saved. G.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Waban Rose.

AGENTS:

WM. J. STEWART, Boston, Mass.

JOHN N. MAY, Summit, N. J.

ROBT. CRAIG, Philadelphia, Pa.

J. C. VAUGHAN, Box 588, Chicago.

ROSES.

A very large stock of young Roses of the lead ing bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for planting quickly. Fine plants for sale by the 100 or 1000, at low rates. Price lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSE PLANTS

by the thousands. Clean, strong and healthy. Ready for prompt delivery.

Trade List upon application.

Address **GERMOND & COSGROVE,**
Rockland County, SPARKILL, N. Y.

SURPLUS STOCK OF ROSES FOR WINTER FLOWERING

WHICH WE OFFER VERY CHEAP, UNTIL SOLD.

American Beauty, Bride, Perle des Jardins, Mermet, La France and Mme. Cusin,

Grown in 2½ and 3½-inch pots.

Our stock of these is in exceptionally fine shape, very healthy and in the best possible condition for planting. It is the same stock we use for our own planting, but grown in excess of our own wants. They are entirely free from mildew. The American Beauty is free from black spot, and all are in perfect health and perfect condition in every respect. Buyers will find it to their advantage to inspect our stock before purchasing. Write for prices.

WE EXCEL IN AMERICAN BEAUTY, WHICH IS A SPECIALTY WITH US, AND OF WHICH WE HAVE A LARGE STOCK.

We obtained first prize, two consecutive days, above all competitors for our exhibit of "American Beauty" at the flower show of the New York Florists' Club, held at the Lenox Lyceum in New York City, in April.

F. R. PIERSON & CO.,
Tarrytown-on-Hudson, N. Y.

OF IMPORTANCE TO FLORISTS!
HYBRID PERPETUAL ROSES FOR FORCING
Orders Booked Now for Fall Delivery.

We will have this fall an immense stock of **ROSES**, year budded on Manetti, all of our own growing, consisting largely of the following varieties, which are mostly suitable for forcing:

ALFRED COLOMB, AMERICAN BEAUTY, ANNE DE DIESSBACH, BARONESS ROTHSCHILD, COUNTESS OF OXFORD, EUGENIE VERDIER, FISHER HOLMES, EARL OF DUFFERIN, GLOIRE DE MARGOTTIN, JOHN HOPPER, LADY HELEN STEWART, MME. GABRIEL LUZET, MAGNA CHARTA, MARSHALL P. WILDER, MRS. JOHN LAING, PAUL NEYRON, PIERRE NOTTING, ULRICH BRUNNER, VICTOR VERDIER, and other popular varieties.

This is a rare opportunity for florists and others to secure extra fine plants at low prices.

Correspondence solicited. Secure the varieties you want by ordering early. Rose Catalogue mailed free to any address.

ELLWANGER & BARRY,
Mount Hope Nurseries. Rochester, N. Y.

JOHN HENDERSON CO.
Flushing, L. I.
ROSES A SPECIALTY. ROSES.
THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants, Catalogue of Prices
Now Ready.

ROSES. We offer for sale this season, 30,000 FIRST QUALITY FORCING ROSES grown from two-eyed cuttings in 3 and 4-inch pots, ready for immediate planting.
MME. HOSTE, LA FRANCE, SOUV. DE WOOTTON, 3-inch pots, \$9.00 per 100; 4-inch pots, \$12.00 per 100,
PERLE DES JARDINS, SUNSET, BRIDE,
NIPHOTOS, SAPRANO, MERMET,
BON SILENE, PAPA GONTIER,
3-inch pots, \$7.00; 4-inch pots, \$10.00 per 100.

Send for our Rose Circular. We wish every florist needing Roses to read it.

J. L. DILLON, Bloomsburg, Pa.
Mention American Florist.

WANTED.
PHORMIUMS, Variegated Varieties.
ASPARAGUS PLUMOSA NANA.
Name best cash price, size and quantity can furnish.
W. N. RUDD, Supt., Mt. Greenwood, Ill.

To Exchange.
Fine Freesia Bulbs to exchange for Calla Bulbs, small Smilax Plants, Cyripediums, Cattleyas or Cologne cristata. Write what you will do. Will sell cheap for cash.
C. THOMPSON ADAMS, West Medway, Mass.

FINE FERNS.

PTERIS CRETICA ALBO LINEATA,

ONYCHIUM JAPONICUM,

ADIANTUM PUBESCENS,

And other varieties.

JOHN WELSH YOUNG,

FRANK STREET, GERMANTOWN, PA

PALM SEEDS

Per 100 per 1000
 ARECA BAURI, - \$1.20
 COCOS WEDDELIANA, - 2.75
 KENTIA BELMOREANA, - 1.75 \$15.00
 " FORSTERIANA, - 1.75

Other Palm seeds constantly arriving.

J. C. VAUGHAN, CHICAGO.

SMILAX.

First Class Plants several times cut back,
 from 21-inch pots, from 100, \$2.00; per 1000,
 \$18.00. 500 at 1000 rates.

THEO. BOCK,
HAMILTON, OHIO.

LILY OF THE VALLEY PIPS.

Strong flowering pips from sandy soil
 with good roots, including cases and L. o. b.
 steamer, Hamburg, at Mark 23.00 per 1000.
 Offer for next fall.

J. TIMM & CO.,
Elmhurst in Holstein, Germany.

Surplus Stock of Celery Plants

250,000 of White Plume.

250,000 Hartwell's Perfection.

Close figures on application. Stock is number
 one. Seventy-five acres under cultivation.

JOSEPH DUNKLEY, Kalamazoo, Mich.



TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and
 Requisites. They are the
 best at the lowest prices.
 TRADE LIST issued quar-
 terly, mailed free to the
 trade only.

HENRY A. DREER,
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I MAKE 'EM, WITH CUTS
AND "KNOW HOW."

J. Horace McFarland,

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SOLD

BY

Seedsmen

COLEUS Verschaffeltii, Golden Bedder, Golden
 Verschaffeltii, Sunset, from 24-in.
 pots, \$2 per 100; \$2.50 per 100. From 3-in. pots, \$2
 per 100; \$3 per 100. Large stock plants, \$5 per 100;
 \$1 per 100. All orders should be accompanied by
 money, otherwise shipped C. O. D.

JOHN RECK, Bridgeport, Conn.

CUT SMILAX.

At Summer prices—15 cents. Quality first class.
 Shipped on shortest notice. Telephone No. 15.
 JOS. E. BONSALL, SALEM, OHIO.

Pansy Seed.

CHOICEST QUALITY AND STRAINS OBTAINABLE.

Trimardean, choicest French mixed, unsurpassed in brilliancy of color and size of flowers, some measuring from 3 to 4 inches across per lb., \$25.00; per 1/2 lb., \$15.00. 3.00 \$1.50 \$1.00 \$.75 \$.50 \$.25
 Same, golden yellow, 3.00 2.00 1.50 1.00 .75 .50
 Same, purple 4.00 2.50 1.50 1.00 .75 .50
 O'DAY'S CHOICE MIXED, composed of the best strains and varieties of my importation. 4.00 2.50 1.50 1.00 .75 .50
 Bugdol's, new, spotted, large flowering Show Pansies, somewhat smaller than Trimardean, but of even more exquisite markings and richer colors, pronounced by many the finest strain produced yet. This variety produces few seeds, and is yet very scarce. 6.00 4.50 3.00 2.00 1.50 .75
 Cassier's, 3 and 5 blotched, giant, extra fine 3.00 4.50 3.01 2.00 1.51 .75
 Roemer's, new 5 spotted giant, producing enormous flowers, striped 1.50 1.00 .65 .45 .30 .20
 Improved Large Flowering, (fine strain), mixed. 1.00 .75 .50 .30 .20 .15
 Black united golden bronze; white, pure; yellow, pure; each. 1.00 .75 .50 .30 .20 .15
 Light bronze, dark bronze; Emperor William; blue. .75 .50 .30 .20 .15 .10
 Faust, King of the Blacks, fine for bedding; Lord Beaconsfield, purple .75 .50 .30 .20 .15 .10
 Mahogany (rubra); Prince Bismarck, brown and golden bronze marbled; quadricolor; white; yellow; superior quality, mixed; each. .75 .50 .30 .20 .15 .10
 Fine German mixed. .75 .50 .30 .20 .15 .10
 Meteor, novelty of 1891, reddish brown. .75 .50 .30 .20 .15 .10
 Peacock, beautifully blotched. .75 .50 .30 .20 .15 .10

CINERARIA.

Hybrida, good mixed, 1/2 ounce, \$1. 1.00 per pkt
 grandiflora, choicest mixed, 1,000 seeds, 75 cents. .75
 grandiflora dwarf, choicest mixed, 1,000 seeds, 75 cents. .75
 grandiflora hermaph, novelty 1891. .50
 choicest double mixed, 1,000 seeds, \$1. .50

PRIMULA.

Sinensis, fringed, fine mixed, 1,000 seeds, \$1. .75
 extra mixed, 1,000 seeds, \$1.50. .75
 ten varieties, each. .25
 double fringed, multi-colored seeds, 30 cents. .30
 five varieties, each. .30

TERMS CASH. For other Seeds, Fall Bulbs, Florists' Supplies, Imported Nursery Stock, etc., write for Catalogues, if not yet received.

ADDRESS:

J. A. DE VEER,

154 East 34th Street, NEW YORK.



LATE CABBAGE PLANTS, for
 10 days only, per 1000, \$1.50
 5,000, \$7.00; 10,000, \$12.50.

CAULIFLOWER PLANTS, per
 1,000, \$2.75; 5,000, \$12.50;
 10,000 \$24.00.

CELERY PLANTS, per 1,000,
 \$1.75; 5,000, \$8; 10,000, \$15.

All the STANDARD VARIETIES
 and GOOD NOVELTIES.

Send for our SPECIAL SUMMER
 PRICE LIST and Essay on Celery,
 July 1st, 1891.

VAUGHAN'S SEED STORE, 146 & 148
W. WASHINGTON ST. CHICAGO.NEW CROP EVERGREEN CUT FERNS
NOW READY.

Special attention paid to supplying the wholesale trade.
 Single thousand, \$1.25; in lots of five thousand
 and upwards, C. O. D., \$1.00 per thousand.

FANCY, DAGGER
 per barrel, \$6.00, 20 barrels, \$100.
 BOUQUET EVERGREENS, \$2.00 per barrel.

L. B. BRAGUE, Hinsdale, Mass.

ROSES FOR FORCING. ROSES

Bride, Perle, Mermet, Gontier, Duchess of Albany, Hoste, Sunset, La France, Bon Silene,
 Wootton, Niphetos, American Beauty, in 2, 3 and 4-inch pots.

OUR FAMOUS WORLD'S FAIR SET OF CHRYSANTHEMUMS, AND ALL THE LEADING VARIETIES.
 Geranium novelties. New and old varieties of Carnations, Pelargoniums, Fuchsias, Hydrangeas,
 Vincas, Violets, and other miscellaneous stock. Dracena terminalis, 4 and 5-inch pots.
 Prices given on application.

GEO. W. MILLER, 1748 N. Halsted Street, CHICAGO.

SMILAX PLANTS.

Good pot plants, \$2.00 per 100.

FUCHSIAS, 5-in. pots, asst. vars., \$1 per doz.

VERBENAS, \$2.00 per 100.

PLUMBAGOES, 3 1/2-inch pots, \$4.50 per 100.

F. WALKER & CO.,

644 4th Avenue, LOUISVILLE, KY.

Every Florist! Every Nurseryman! Every Seedman!
SHOULD HAVE
OUR TRADE
DIRECTORY.

Address AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

Long Island News Notes.

C. H. Allen of Floral Park, has put up two houses 100 feet long, for cut flowers.

Thos. F. Martin, for 11 years with V. H. Hallock & Son and son-in-law of John Thorpe, is going to Pearl River to go in business for himself.

From Hallock's and Childs' places no less than five men have gone into business for themselves the last two years.

Water lilies are becoming, and are bound to be, a leading feature in all fine places. Long Island is no exception to the rule.

Geo. Irlam has rented some three or four greenhouses from Mr. Stanley, at Queens.

James Shandley, for some years foreman for V. H. Hallock & Son, and for several years past in same capacity for J. Condon of Brooklyn, has started for himself near Greenwood Cemetery, to make Cemetery work a specialty. Few know how well Weir and Condon have done in this line. There is more work in our line done in Greenwood Cemetery than any other on this continent. H.

Old Time Recollections.

Some few years ago (possibly a dozen) a gardener fresh from the east called on a Chicago florist and told him he could grow roses as easy as falling off a log, and make bushels of money for the man who would supply the houses and pay him a salary. He was engaged, plants were secured, and he removed them from their 4-inch pots and placed them in tubs of earth which he loaded with fertilizer. The plants attained to a considerable height with the lapse of time, but the flowers never appeared in quantity or quality worth cutting. After a year of this the employer told the man to try his talents elsewhere. A few days after his departure an acquaintance called and found the florist had lifted the plants from the tubs. The plants were from three to four feet high, and the florist was potting them into 3-inch pots. After a year in the tubs they had so few roots that they went into 3-inch pots with ease. The plants had been so gorged with fertilizer that this result naturally followed.

A resume of the laughable failures from which the present system of growing roses has been gradually evolved would make very amusing reading now. M.

SMILAX.

Nice stock well grown plants for immediate planting. \$1.50 per 100; \$12.00 per 1000.

FERNISIA, fine, well ripened, home grown bush (far superior to imported), \$1.50 per 100; \$10.00 per 1000.

CALIX (Rosa grandiflora) or Howell, finest of all for house culture, per doz. \$50; per 100, \$4.50.

CYCLAMEN, Persian and Giganteum, fine bulbs and stock, \$1.00 per doz.; \$10.00 per 100.

F. A. BALLER, Bloomington, Ill.

NEW CROP PANSY SEED.

Mammoth Sunbeam Strain.

One of the finest and most perfect strains of Mammoth Pansies yet produced; very large, of fine form and brilliant colors. A very carefully selected collection. These pansies have received high praise from my customers of last season. Every florist should sow of this strain. Trade price \$2.50 per doz.; \$25.00 for 100.

F. A. RIECHERS & SOHNE, Act-Ges, Import and Export Nurseries, HAMBURG, GERMANY.

Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.

Wholesale Catalogue on application.

SPAGNUM MOSS CHEAP.

No sticks, etc. Bale or barrel, pressed and dried on all you need. Geraniums and Fuchsia, nice and bushy at your own price. Cutlery plants, \$5 per 5,000.

PETER J. SCHUR, Kalamazoo, Mich.

PANSIES.

PANSIES THAT ARE UP. No need to worry over getting the seed to come up, it is up and ready to plant when I send them.

It is not only the plants that are up, the strain is up also; up, to, and a goodly number of my customers say, above any strain in the market. The price is down, considering the quality of the strain, seed as good would cost you about as much per 1000 plants. My price is \$5.00 per 1000, or in lots of 2,500 and over, \$4.50 per 1000.

SEND FOR LIST AND SHORT PAPER ON CULTURE.

PLANTS READY AUGUST 20th TO DECEMBER 1st.

SMILAX.

Plants ready July 1st and later. These will be nice and stocky, and ready to go right ahead. There is some 40,000 here; let me have a chance to fill your order.

Send 10 cents for samples and get my prices before ordering elsewhere.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

VERBENAS.

IN BUD AND BLOOM.

General Collection, bushy plants.....	\$2.50	Per 1000
XX Mammoth Red.....	3.00	25.00
Colonia, blue collection.....	3.00	
Lemon Verbenas, strong, 1 year old dor.....	4.00	
Vineas, strong, 1 year old.....	5.00	75.00
Ampelepis Veitchii, strong.....	8.00	75.00
Chrysanthemum varieties and prices on application.		
ROSES, extra fine plants. Perles, Mermet, Bride, Snow, Cuisse, Vase de Watteville, S. D'un Ami, Niphetos, Sunset, La France Cook, Gontier, Bois Sienne and Safrano.....	24-inch pots.....	45.00
Hybrid Perpetuals, in bud and bloom, 5-inch.....	25.00	
Trade List of Florists' Stock Free.		

WOOD BROTHERS,

(Successors to I. C. WOOD & BRO.) FISHKILL, N. Y.

ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED. ROEMER, SEED GROWER, QUEDLINBURG, GERMANY.

PANSY SEED

of the best quality, in 25 leading varieties, offered at greatly reduced prices.

HENRY METTE,

SEED GROWER AND MERCHANT,

QUEDLINBURG, GERMANY.

Trade Catalogue free on application.

Zirngiebel's

GIANT MARKET AND FANCY PANSIES

New crop seed of those superb strains now ready, in trade packets of 1,500 and 600 seeds respectively, at one dollar each.

DENYS ZIRNGIEBEL,

NEEDHAM, MASS.

CHRYSANTEMUMS.

Best market sorts in 30 varieties from 3-inch pots, \$3.00 per 100.

CYCLAMEN GIGANTEUM, Williams' finest strain, from imported seed, 3 inch pots, \$8.00 per 100.

Address J. G. Burrows,

FISHKILL N. Y.

Send for the List of

H. Yoshuke's New Chrysanthemums

and of his valuable collection, which contains almost all the largest and best Chrysanthemums existing in the world.

H. YOSHUKU,

The Japanese Chrysanthemum Raiser,

1064 22nd St. cor. Linden St., OAKLAND, CAL.

"A HIT! A PALPABLE HIT!"

We paid \$1.00 HAIL losses last week. Are you covered? FLORISTS HAIL ASSOCIATION, SADDLE RIVER, N. J.

PANSIES. * *

Plant your frames this fall with PANSIES that will SELL AT SIGHT. You want the Best if you keep up with the procession. My strain cannot be surpassed for size, color, or substance of flowers. I know my stock will please, and I am prepared for a big rush.

FINE STOCKY PLANTS once transplanted, \$5 per 1000 by express; 75c. per 100 by mail. Special prices on larger lots. Orders booked now filled in rotation, or on any date desired after August 15.

ALEX. McBRIDE,
ALPLAUS, N. Y.

THE FAMOUS
Azalea Vervæniana.

Having made a contract with Mr. B. Maenhout van Melle, of Ghent, Belgium, to handle this beautiful variety, we can offer them by the thousands at very reasonable rates.

HULSEBOSCH BROTHERS,

P. O. Box 3118, NEW YORK CITY.

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Supply the trade with all

FLORISTS' GOODS,

Seeds, Bulbs, Imported Plants, Supplies, Etc., Etc. For prices examine Wholesale Catalogue.

Address with business card

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FLORAL DESIGNS.

The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address (with \$3.50 for the book)

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Box 655, HARRISBURG, PA.

ALL ABOUT PROPAGATION

THE RURAL PUBLISHING COMPANY,
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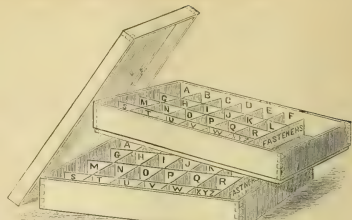
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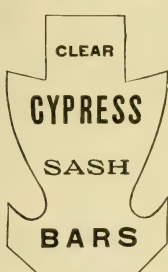
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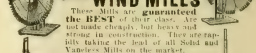
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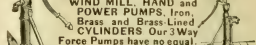
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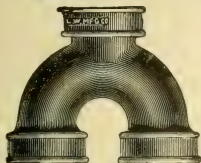


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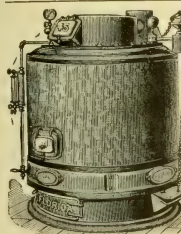
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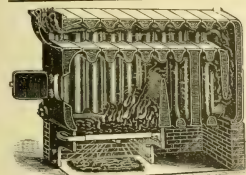


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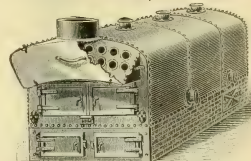
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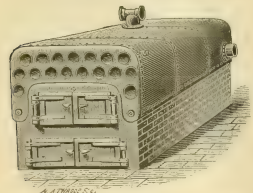
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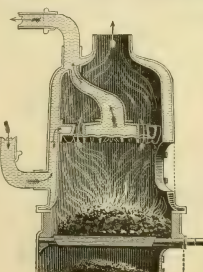


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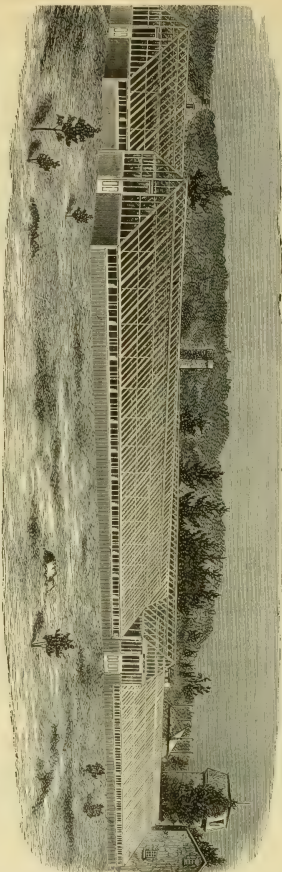
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Vol. VI.

CHICAGO AND NEW YORK, JULY 9, 1891.

No. 162.

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Society of American Florists.

The preliminary programme for the Toronto meeting will be ready for distribution about July 15, and will give a list of the essays which will be read, together with full information regarding transportation to and from the convention, hotel rates, and other matters of interest.

A uniform rate of one and one-third fare for the round trip, on the certificate plan, has been granted by all the trunk lines and passenger associations, with the exception of the Western Passenger Association. This association controls only roads west of Chicago and St. Louis. Every possible effort has been made to prevail upon their committee to grant to our members living in the territory facilities equal to those enjoyed by members in every other section of the country, but without success. Members coming from territory west of Chicago are therefore advised to travel, if possible, only upon roads not represented in the Western Passenger Association, purchasing tickets only to Chicago, St. Louis or other central points, from which place the reduced rates to and from Toronto may be secured.

Dues for the year 1891 (\$3) may be remitted to the secretary at any time previous to the convention by members who desire to avoid the rush at convention time. Badge and receipt will be mailed in return. Those whose dues for 1890 are still unpaid are reminded that all arrears must be settled before a badge for 1891 can be secured.

The Question Box will be, as heretofore, a most interesting and instructive feature of the meeting. Questions may be sent to the secretary in advance, or may be placed in the box during the sessions and competent gentlemen will be assigned to reply to them.

Intending exhibitors are notified that all dutiable articles intended for exhibition purposes will be admitted free. Exhibitors of heating apparatus are informed that in accordance with a vote of the executive committee no certificates will be hereafter awarded to such exhibitors, the judges in this department being instructed to call attention in their reports to apparent points of superiority only.

WM. J. STEWART, Sec'y.

Names and Addresses of Chairmen of Committees of Toronto Gardeners' and Florists' Club for S. A. F. Convention, August, 1891.

Reception Committee—Mr. John Chambers, Superintendent Parks and Gardens, St. Lawrence's Hall, Toronto, Ont.

Trade Exhibit Committee—Mr. Thomas Manton, florist, Eglinton, Ont.

Entertainment Committee—Mr. W. J. Laing, 401 Huron street, Toronto, Ont.

Ladies' Committee—Mrs. Fraser, florist, Spadina Crescent, Toronto, Ont.

Introduction Committee—Mr. F. G. Foster, florist, Hamilton, Ont.

Decoration Committee—Mr. C. Arnold, florist, 521 Queen street, W., Toronto, Ont.

Finance Committee—Mr. J. H. Dunlop, florist, corner of Bloor street and McKenzie avenue, Toronto, Ont.

Printing and Badge Committee—Mr. S. E. Briggs, of the Steele Brothers Co., corner of Front and Jarvis streets, Toronto, Ont.

Bureau of Information—Mr. George Vair, care Sir D. S. McPherson's Chestnut Park, Toronto, Ont.

Principal Toronto Hotels.

NAME	CAPACITY.	RATE PER DAY.
Queen's Hotel, Headquarters, 75 to 92 Front St.	300	\$3.00 to \$4.00
Roslin House, King and York Sts.	250	3.00 to 4.00
Walker House, Front and York Sts.	250	2.00 to 2.50
Palmer House, King and York Sts.	250	2.00
Arlington Hotel, King and John Sts.	200	3.00 to 4.00
St. James Hotel, 125 York St. (opp. station)	50	1.50
Albion Hotel, Market Square.	300	1.50
Hillcott House, Church and Shuter Sts.	150	2.00
Hotel Metropole, King and York Sts.	75	2.00
Avondale Hotel, Simcoe and Wellington.	50	1.50
Richardson House, King and Spadina.	100	1.50
International Hotel, Front and Simcoe.	200	1.50
Black Horse Hotel, Front and George.	125	1.00
Russell House, 215 Yonge St.	50	1.50
Power House, King and Spadina.	90	1.50
Schiller House, 120 Adelaide St. E.	50	1.00
Lakeview Hotel, Fairbank and Winchest'r.	75	1.50
Keachie's Hotel, 30 King St. W.	50	1.50 (European)
Empress, Yonge and Gould.	100	1.00 to 1.50

The majority of the above hotels are in the business portion of the city, the center of which is about one and a half miles from the convention hall in the Horticultural Gardens. Street cars pass the doors of all of them, making communication between hotel and hall quite easy.

Members wishing to secure accommodation before hand will do well to communicate early with Mr. J. H. Dunlop, 1 McKenzie avenue, Toronto, Ont.

If you have any really good thing to sell to florists, don't fail to show it at the trade exhibition at Toronto in connection with the annual convention of the Society of American Florists. All the live men in the trade will be there, and they are the men who are quick to discern merit in anything that really possesses it. If you have a good thing, show it there by all means, but if it is a "fake," keep it away. It won't pay you a cent to exhibit anything that does not possess real merit.

Leaves of Advice From a Lamb of the Law.

(For Young Florists.)

XXX.

Of course you can't afford to lose fifty dollars. No man can. The millionaire A. T. Stewart made his employee in the packing department keep a box into which all crooked nails, bits of iron and broken screws were thrown. In this way a hundred dollars or more was saved in a year's time.

Now, if I understand you correctly, Mrs. Featherly has within the year past ordered flowers from time to time and that when you presented your bill to her the other day she referred you to her husband.

Featherly, who is a pretty decent sort of a fellow when he is inclined to be, shrugged his shoulders and replied that as he was not living with his wife now, and as her father had money, that he, Featherly, could not pay the bill.

This was news to you, you had not heard of any separation, it had not become public scandal, and therefore I have to advise you that unless they can show knowledge in you of her having abandoned her husband's bed and board, you will be entitled to collect your bill.

I have already called your attention to the fact that while cut flowers are extremely delightful to the senses, they are not what the law considers "necessaries of life." Necessaries of life are food, clothing and lodging and it would make absolutely no difference whether a man is living with his wife or not, whether you knew of the break between them or not; so long as the marriage contract lasts, a man is in the eye of the law obliged to make good to strangers their expenditures in housing, feeding and clothing his wife. If he wants to free himself from this liability he must get a limited or a complete divorce against her and bring home to the world notice of the dissolution of the marriage contract between them.

At common law the position of a married woman was peculiar to say the least. Her very name, being and entity became merged into that of her husband. She might even commit a murder and excuse herself by saying "my husband told me to do it."

All her property became his and he was entitled to the wages earned by her. He might collect her week's pay for scrubbing and washing and spend it at the ale house.

If she uttered a slander or committed a trespass he was liable for it. She was his slave, his chattel, his servant, his handmaiden. He might whip her provided he did not injure her health, he might have her ducked in the horse pond if she scolded too much. He might in some cases indenture her out to work just as a father can a son. If she ran away he could have her arrested and brought back and if she was lazy and indolent he might shut her up in the cellar to discipline her. If he beat her unmercifully it was not even an assault, and was only a breach of the peace and a small fine made things all right again.

But thank heaven all these barbarisms have been swept from our legal systems by what we call the "Married Women's Acts," which in most of our states now place the wife exactly upon the same footing as the husband, except that she may not vote and is not liable for jury or military duty.

This legislation is the one thing of which our celebrated 19th century may well be proud. It is a splendid monument to the

civilization and humanity of our age and if our republic should be disrupted tomorrow it would not have lived in vain.

By these Married Women's Acts, as they are called, a husband has lost, I might almost say now and forever, what is commonly known as "control" over his wife. Or to put it differently, the only control that a man has over his wife nowadays is that mere "social fiction," by which the man is permitted to pose and parade as the master of the household. That is to say, it only exists as a shadow of a right and not the right itself.

A wife's real and personal estate is hers to sell, mortgage or give away, as she may see fit, and in most states it is not even necessary for her husband to sign the deed of mortgage. The wife may speculate, go into business, become a stockholder in a corporation or a partner in a firm. She may go on a bond, make a note of hand or sign any kind of contract she chooses with respect to her own property.

So you see the reformer has been in such haste to free the married women from the tyranny of the common law that he has not "evened things up," so to speak, by which I mean that while the wife's right in the real property of her husband (right of dower) still remains, he has no corresponding right in her real estate, or at least if he has she may destroy it by deed or will, which he cannot do.

A great lawyer, David Dudley Field, takes the position that man and wife should stand on the same level, that is, have only such rights in each other's property as they of their own free will choose to give to each other; and I agree with him heart and soul.

Now as to your dealings with married women: If a married woman buys a large bill of merchandise from you, trees plants and flowers to decorate and improve her own real estate, you would not need to ask any recognition of that contract on the part of the husband, for the law holds that whatever goes to improve or beautify a wife's separate estate should be charged upon such separate estate. Therefore I would counsel you when dealing with married women having estates of their own to have it specified in writing to whom the credit is given, then in case of a squabble it will not be possible for her to put the account off on her impucent husband.

Some men who have rich wives resort to despicable trickery to raise funds on their wives' notes and then when the notes are sued they set up that the note was not given for value, as it didn't go to the benefit of the wife's separate estate. So when a married woman's note is offered to you first inform yourself as to its origin; whether she gave it or whether she has any interest in it; of course a married woman must use her husband's name. She may if she choose tack it to hers this way: Julia Smith marries a Brown and becomes Julia Smith-Brown with a hyphen. This shows the transaction and ought I think to be followed.

Always look with suspicion upon any firm or concern having women in it when that fact is suppressed or covered over in any way.

Now the law will allow a wife to help her husband, but her note to raise the money for him should use these words: "I hereby charge my separate estate with the payment of this note." While it may not always be necessary, yet insist upon those words being added to the end of the note. If in selling a bill of merchandise to a husband for a fete to be given by his wife, you first charge the goods to the

husband, you will not be allowed to shift the credit to the wife when you find that she has the ducats.

You ask me whether that rule would obtain in case the goods were necessities for the wife? I answer no. If you fail to collect the amount from the husband you may then sue the wife, alleging that you seek to charge her separate estate.

But while on this subject of credits I would say that you can't be too careful how you give a credit when the husband has a rich wife. The best way is to get an order from the rich wife over her own signature. I don't think that women as a rule are inclined to shirk their honest debts, but men teach them to be sharp and unscrupulous.

Life, you see is full of difficulties, but human life is only a bit more difficult than plant life. The price we pay for existence is eternal vigilance and unceasing application. The very moment you become careless your vigilant competitor gets ahead of you. Whether a man raises roses or writes briefs it's all the same. He who does it best gets best reward.

UNCLE BLACKSTONE.

Packing Cut Flowers for Shipment.

A method we have used extensively is here outlined.

Wooden boxes are used. If second hand, we are careful to avoid those that have been used for odorous articles like matches, codfish, and the like.

When to be more than six or eight hours in transit we invariably use ice in the boxes, with nearly all kinds of flowers. In cold weather a small quantity of it avoids heating in warm cars and when warm it is a necessity to keep the flowers in fresh condition. Before putting any flowers into our box, either a board is nailed or propped in crosswise, or a cushion of waste paper or any similar firm material is filled into one end, and of such extent and shape that flower stems resting on it would be at an angle of 30 to 40 degrees of elevation. Tissue paper should be used freely in lining the box, coming up all around to fold over the heads of the flowers at the finish. Place roses and heavy flowers in first at this angle. Roses of the size of Perles can be put in in handfuls of fifteen to twenty-five, the cut ends of the stems uniform at bottom of the box, the heads varying. Fill in a layer of these handfuls across the box, adding packing material in any empty spaces to fill firmly. Any ice used should go in among the stems; heretofore it did its work best, keeping the stems wet and the flowers fresh without wetting the heads. A succession of these crown layers with tissue paper used freely between them until the stem ends of the flowers strike the other end of box fills it, excepting a remaining wedge shaped space over the last layer, and which is often adapted for light flowers, like long stem carnations, bouvardia, alyssum, violets, or smilax; in any case, it should be filled snugly with some light material. Ruffle down the loose top portions of the tissue paper over the flowers, and you are ready for the cover.

Packed in this way, most kinds of flowers will carry perfect, especially if the box is kept right side up. This we accomplish to a certainty by attaching a handle to the box consisting of a piece of small rope running lengthwise over it, somewhat slack. We fasten this quickly and firmly by one or two one-inch long double pointed cut tacks or staples driven into each of the heavy box ends, the staple straddling the rope, as it were; the



PAVILION IN THE HORTICULTURAL GARDENS, TORONTO, ONTARIO, IN WHICH THE COMING MEETING OF THE SOCIETY OF AMERICAN FLORISTS WILL BE HELD.

shipping tag is fastened to the rope handle by a piece of wire; expressmen at once comprehend its use and the package goes and stays right side up. Our experience covers the handling of a large number of boxes packed in this way and they have universally been properly handled. In packing flowers the size of ordinary roses in this way, boxes eight to nine inches deep work the best. We adapt this principle in style of packing, modified somewhat, to small retail lots of flowers in small boxes, also longer stemmed flowers in large boxes.

Common sense work in packing is necessary to attain to successful results in shipping flowers. Much is to be considered in suiting the packing to the distance and the weather, and the kinds and qualities of flowers.

For protection against cold, sheet wadding and heavy paper seem the more efficient, and at the same time convenient. Avoid too much cotton packed tight against the blossoms, as it has a drying effect. Cold enters packages more readily from the bottom, through exposure on cold floors of stations, platforms, wagons, etc., so ample protection there is necessary. Running the sheets of paper or cotton beyond the corners or angles of boxes at which points the cold air gets in readily should be practiced.

Carnations should be packed as dry as you can, at as low a temperature as can be reached without freezing. No moisture should come to them, especially to their heads. When packed with roses they should be in the upper and loosely packed part of the package.

Most all roses travel well, if the stems can remain moist, but the heads should be nearly or quite dry; Jacq roses, however, bear much wetting; and when shipping them in warm weather we use small ice lumps among them freely, almost packing them in ice. In warm weather we prefer them packed loose as possible in open-work baskets, so ventilation is free.

Don't nail down flower box covers as though you were shipping hardware across the Atlantic. Someone must pull out those big nails in a few hours, probably hurriedly in a store filled with customers waiting for these flowers. A shingle or six-penny nail in each piece of cover will answer all purposes.

Don't expect flowers to put on a new life and vigor in an express car, or that stuff in an advanced stage of development will bear packing, transporting and handling and ultimately be a source of pleasure and delight to the consumer, and an inducement to him to send to you again for more.

D. B. LONG.

Buffalo, N. Y., June 24, '91.

Botany at Harvard University.

The following facts regarding the botanic garden, herbaria, and arboretum at Harvard University, Cambridge, Mass., will be of interest to many readers of the FLORIST.

The botanic garden and greenhouses occupy about seven acres of land adjoining the observatory grounds. About 6,000 species of flowering plants are grown for educational purposes, supplying students of botany who are members of the university with abundant material

for determination or investigation. The botanical library of 9,000 volumes and pamphlets and the university herbarium are contained in one of the buildings belonging to the garden. The herbarium contains several hundred thousand specimens which are open, under the direction of the curator, to qualified and properly registered students. The accessions to the herbarium in 1889-90 illustrate the direction and the rapidity of its growth. They included 850 specimens from northern Mexico, embracing many new and little known species; 575 from Canada; 600 from Porto Rico; 670 from Bolivia; 700 through the director of the Kew gardens, mainly from China, Tasmania, and Brazil; 126 from Arabia Felix; 300 from South Africa; 240 from Australia; the entire Thomas P. James collection of mosses, and a large part of the George Thurber collections.

The herbarium of cryptogamic botany is placed in the university museum in connection with the botanical museum. It contains several hundred thousand specimens, including the Tuckerman collection of lichens, having about 75,000 specimens; the Curtis collection of fungi, about equal in magnitude; and the Farlow collection of algae, lichens, and fungi. Competent students who are not members of the university may obtain permission to use the herbarium under proper supervision.

The Arnold arboretum occupies a portion of the Bussey farm, 160 acres in extent, in that part of Boston known as West Roxbury. It was founded for the purpose of scientific research and experi-

ment in arboriculture, forestry, and dendrology, and as an out-door museum of trees and shrubs suited to the climate of Massachusetts. The living collections are supplemented by others in the herbarium and museum, which are temporarily placed in the "Dwight House" in Brooklyn. Anyone properly qualified to pursue the study of practical arboriculture or forestry may be admitted to the arboretum as a student. Details are obtainable from the director, Professor Charles S. Sargent, Brookline, Mass.



Specimen Chrysanthemums.

I was rather astonished to read on page 84 of the *Florist* that Mr. John Thorpe was advocating growing two or more chrysanthemums in a pot to make showy exhibition specimens. I would like to know from Mr. Thorpe if he thinks there is any art in manufacturing a specimen in that way, also what an exhibition is for. I have always understood that an exhibition was for the purpose of displaying the skill of the grower as an incentive to the masses to imitate or equal his skill, a means of educating the people to grow or have grown for them specimen plants as near perfection as an expert in the art grows them. I do not think that placing two or more plants in a pot is much of an art.

If a mass of color is the desideratum at an exhibition why not provide a class for effect, either devote a given number of feet of floor space or designate a given number of plants and let quality of flowers and general effect be the criterion. I think this class is common at exhibitions and is always very effective. I do not mean single stem and single flower plants; I mean plants with from five to eight flowers which are far more effective than the above. If we are to be allowed to stick an unlimited number of plants in a pot the size of the specimen would only be limited by the size of the pot and not to the skill of the grower. Why not utilize a wind mill tank, say 12 by 12 feet, mounted on wheels, bore holes all over it and plant with chrysanthemums and hire a team of elephants to draw it to the exhibition? It would be worth something as an advertisement and would interest if it did not please the public as a specimen.

JOHN DALLAS.

[Mr. Thorpe did not exactly "advocate" the practice of putting two or more plants together in the same pot. He simply said he saw no objection to so doing if the plan met the views of a majority of the exhibitors and no rule was made to the contrary.—Ed.]

Myosotis Dissitiflora.

"There are few spring flowers more valued than the forget-me-not," says J. C. B. in the *London Gardener*. "It is well to put some portion of the stock in a cold frame where there is a reasonable chance of their coming through a period of hard weather unharmed. Not only is this the case, but the blooming season is thereby hastened. A year or two ago some old plants hap-

pened to be cast out doors among some old currant bushes. Young plants that came up were allowed to remain, and it was very noticeable how green and healthy they looked when the cold east winds were exercising their usual effect on things generally. They came, too, into bloom quite a fortnight before the old plants, being very welcome for cutting when outdoor flowers were so backward. One of the best ways of treating this forget-me-not is to devote a sheltered corner to it, and just when the plants begin to grow freely to dress the ground among them with an inch of leaf mould or thoroughly rotten manure. A stock of plants for the following season is then provided for without the trouble of sowing, as the seeds that drop will be sure to germinate in the course of the summer. When these come up, and they will germinate much more readily by being screened from sun and air by the old plants, the latter can be pulled up and the young ones given room to develop. Although old plants will generally bloom very well, young ones are earlier, and the flowers they produce are much finer, both as regards color and size. Treated as above, one may be sure of having enough of this charming and indispensable flower when the blooming time comes round."

Try this forget-me-not as a pot plant for spring sales or for Easter trade.

Aralias.

The aralias are a very useful class of ornamental plants, either for conservatory or room decoration, as they are of good habit and constitution. They are found in almost every part of the world, but the handsomest species are natives of the South Sea Islands. Some varieties are excellent for sub-tropical bedding and are half hardy. The aralias are all of moderately free growth and are quite easy plants to manage, one of their most important requirements being to keep them well supplied with water at the roots and another is to have perfect drainage in the pots.

The finer or stove varieties should be potted in fibrous loam and peat with sand enough to keep the soil open. The stronger growing kinds, such as *A. papyrifera* and *A. Sieboldi* require a richer and stiffer soil. They are all benefited by an occasional watering with manure water when growing freely. They are propagated from cuttings, root cuttings, and by grafting.

To obtain the roots, take a strong, well rooted plant, and shake it out; select good roots, and cut in pieces about two inches long; in planting the roots place the end of root nearest the stem uppermost in pots of sandy soil, leaving the top of cutting level with soil, then plunge in moderate bottom heat in cutting frame, or else cover the pots with glass. They can also be increased by eyes taken from the stems of the plants, making the cuttings about an inch and a half long and having the eye at the upper end, and taking a slice of wood off the cutting opposite to the eye. When the cuttings are made they should be pressed singly into small pots filled with sandy soil, leaving the eye above the surface. Then plunge in bottom heat and keep close in cutting frame. The plants when cut down should be plunged in bottom heat, and then they will often throw up several suckers, which can be taken off and potted, and will soon make good plants. All the greenhouse varieties are readily propagated by cuttings or from the roots.

Some of the stove species are difficult to

propagate from cuttings, and should be grafted on one of the free growing varieties. *A. Guilfoylei* or *A. reticulata* make good stocks to work them on. When grafting them work them as low as possible. As soon as the grafts have taken the plants should be repotted and treated the same as plants raised from cuttings. I will only mention a few species, selecting the most useful ones for decorative effect.

A. papyrifera: This is a grand plant for the sub-tropical conservatory, or as a greenhouse plant it is a strong grower, and is quite hardy in England.

A. Sieboldi: A very fine, ornamental plant for conservatory, and when in a young state a good window plant. It does best in a cool greenhouse.

A. crassifolia: A fine decorative plant of erect habit, having long, narrow leaves of dark olive green, midrib prominent and deep orange in color. Cool greenhouse species.

A. filicifolia: A free growing species, with pinnate leaves of light green. A very useful variety.

A. Guilfoylei: A good grower, with pinnate leaves of light green bordered with creamy white.

A. Veitchii gracillima: The most beautiful plant of all the aralias. The leaves are filiform and the midribs are ivory white. This is an exceedingly ornamental hothouse plant. This variety is increased by grafting.

A. elegantissima: A handsome plant something in the style of *A. Veitchii*. Propagated by grafting.

A. Osyana: A elegant variety with digitate leaves of light green, and the ribs of the leaves brown.

There are many more species in cultivation, and almost all of them make fine decorative plants and are deserving of a place in all collections of plants.

Maywood, N. J.

J. S. TAPLIN.

Basket.

The peculiar shape of this basket is well adapted for some arrangements of orchids. We first filled with white carnations (Lamborn), which made a good back ground for a number of pale *Cattleya Trianae*, several blooms of *Cypripedium Lawrenceanum* were used with good effect. To one side of the handle we fastened several blooms of *Dendrobium thyrsiflorum*, allowing them to fall gracefully as is their habit. *Asparagus plumosus* was used for green and on the other side of the handle we arranged a few of that beautiful sweet pea *Blanche Ferry*. An enterprising Philadelphia grower was successful in bringing sweet peas into flower on March 21. We think that this breaks the record. Good flowers with a bit of foliage have been sold for two dollars and a half per hundred; they surely ought to pay at that price.

H. H. BATTLES.

Violas.

In the *Gardeners' Chronicle*, May 23, your correspondent, "J.," writes of some distinct violas, and in reading the reports of the spring gardening in the London parks, I have wondered how it is that those lovely plants are not much more grown for spring and early summer decoration. For years I have striven hard to obtain for the viola a much more prominent place than it yet has in our spring and summer decorative work, but it is so hard to get many to move out of the beaten track. "J." speaks highly of Bul-



BASKET.

lion, truly a grand yellow, and I saw a bed of it in bloom in February, when we had at Birmingham some lovely spring weather, and it has been bright ever since, notwithstanding the recent frosts. "True Blue" and "Mrs. Charles Turner" are two of my seedlings, of which I am very proud. The former is very early and floriferous, and is unquestionably our best blue. Mrs. Charles Turner is truly a fine thing of very dwarf habit, and of a blue violet color. Countess of Hopetoun is a gem amongst whites, having a very dwarf, compact habit; and for a stronger grower Marchioness of Tweeddale is a very fine variety, snow white, without any marking whatever. Countess of Kintore, a beautiful blotched variety, light purple, with a large, distinct light blotch in each petal, is a great favorite. But there is a great beauty, sent out by Mr. Downie, Edinburgh, three years since, named "The Mearns," which, I

understand, is the local vernacular for "The Meadows." This is a grand variety, of rich violet color, and with clear, light colored, almost white, top petals, and a wonderful bloomer, and at the same time Mr. Downie introduced "Lady Amory," similar in color and marking, but the body color has a rich, rosy carmine shade in it. Both should be in every collection.

There are now a great number of varieties, of which many are deserving of cultivation by everyone. Of course, one has to know "how not to grow them," as well as how to grow them well. Cuttings should be taken early in the summer and struck under a north wall without glass protection. These make strong, sturdy, well rooted plants, either for planting out in their blooming quarters early in November or before, to get well established before winter sets in, or the plants kept in protected places for planting out

early in spring. The violas (and the pansies) are very hardy plants, if grown hardy, but not shut up in frames, for the damp steps in and away go the plants. I think a great misconception has prevailed as to violas being difficult to grow, and hot summers have certainly been very destructive to them at times, but we want the viola for very early work, especially from March onwards, and a batch of spring struck cuttings, kept under a north wall or shady place, will insure a supply of stock in case of a slaughter in the beds.

An effort is being made in some quarters to call violas "tufted pansies," a designation I emphatically protest against, and it is also misleading to the public, who are led to suppose they are buying a new race of pansies. One advertiser rushes into a poetic strain in their resemblance to "A Spray of Western Pine." I shall continue to call them vio-

las and bedding pansies, for they are getting very much mixed, and the pansy blood is getting very much infused with the ordinary bedding viola.

One of the most interesting corners in my garden contains a batch of the wild pansy, and in these we have the original type of pansy found by Lord Camber in the fields adjoining his mansion at Iwer, and handed to his gardener, Mr. Thompson, for cultivation, about the year 1813. I have now growing in my garden the original form of the wild pansy, and the "up to date" new varieties of our grand fancy pansies.—H. Dean in *Gardeners' Chronicle*.



Varieties of *Cypripedium Boxalli*.

C. Boxalli is distinguished from C. villosum—of which it is considered a variety—by the upper sepals and the petals being narrower at the base and revolute at the margins, a circumstance which has the effect of somewhat reducing the area of those organs. We noted a fine form of C. B. atratum the other day in the nursery of Messrs. Charlesworth, Shuttleworth & Co., Clapham. The flowers were of great size, and the upper sepal was nearly covered with blackish purple blotches, which were confluent on the upper portion of that organ; the margin was broad and white. The petals were obovate and deep shining brown on the upper longitudinal half. The lip was yellowish, and suffused with light brown in front. In the same house was a flowering piece of C. Boxalli superbum, having much darker and more richly colored flowers than the above. The blackish purple of the upper sepal was almost continuous, with a few small greenish blotches here and there through it. The upper longitudinal half of the petals and the front of the lip were also several shades darker than in C. B. atratum; and the margins and lower longitudinal half of the petals were of a clearer yellow. C. Boxalli itself was in flower, showing off by contrast the great difference between it and the varieties in the matter of color.—*The Gardening World*.

New Orchid Pot.

An English potter is introducing a new orchid pot, of which we give an illustration, reproduced from one which appeared in the *Gardening World*:

"The advantages of this pattern orchid pot and pan," says the introducer, "will be obvious to all experienced orchid growers. The great difficulties experienced in the use of the old pattern orchid pots were the accumulation of water at the base of the pot and the difficulty of keeping the pots clean; the oval and round holes being in many cases too small to get a brush into, to clean out the accumulated green growth, which is known to be injurious to the roots, besides spoiling the cleanly appearance of the pots. In this pot these faults are remedied and the accumulation of water at the base prevented. The base of the pot being concave, the portions between the slits form legs, which raise the main part of the pot above the stage and obviate all risk of stagnant water remaining at the base of

the pot inside. The slits are V shaped, facing outwards throughout their whole length, thus facing the pot cleaner, not simple cut slits, the object of these being to enable the gardener to use a brush and clean the slits as readily as he can the outside of the pot. Both pots and pans are provided with a rim, in which three holes are pierced, so that wires may be put in to hang them up if desired. The pans will prove a special boon to cattleya growers, as the free drainage at the base will prevent the roots getting rotten."



NEW ORCHID POT.

Note for Committee on Nomenclature.

Roses "Souvenir de S. A. Prince" and "The Queen." These two roses are identical with me, and I am certain I have them true, as they were procured from the introducer in each case. Souvenir de S. A. Prince was raised by Mr. George Prince, of Oxford, and is a fixed sport from Souvenir d'un Ami. Like its parent, Souvenir de S. A. Prince is one of the best of all tea scented roses; in color it is pure white, very sweetly scented, producing large quantities of flowers all the time the plant can be induced to grow. For forcing this is one of the very best, while it has a splendid habit and really handsome foliage. The Queen is also a sport from Souvenir d'un Ami, and was sent out about the same time. In the latter case the rose originated in America, and was sent out by the Dingee & Conard Company, Messrs. William Paul & Son distributing it in this country. It will be seen from the above that this is simply another instance of a rose sporting in two widely different places at the same time and with the same result. Doubtless these roses will be bracketed as synonymous by the National Rose Society after another season's trial.—*Correspondent in London Garden*.

If you have anything to sell to florists, keep your name continually before the trade by a card in these columns. The effect of a large advertisement run a few times during the busiest season can be greatly enhanced by running a small card continuously during the rest of the year. Your name and specialty should be given in every issue, so that there will be a continual reminder before the eyes of possible customers.

Plants Growing on Mossed Wall.

The illustration shows plants growing in moss on a wall in the aquarium at the Allegheny City Park. To moss the wall spikes with eyelets are driven into the wall, 6½ inches apart, then galvanized iron wires are strung from point to point. Moss and a little soil is then packed between the wires and the wall. The plants used in this case were selaginella, begonias, farfugiums, fittonias, cyperus, nerteras and leras and they made a charming picture.

Chicago.

O. W. Freese, wholesale florist at 66 Wabash avenue, made an assignment June 30 to John E. Bohan. The liabilities are reported to be about \$1,500 and the assets are estimated to be from \$400 to \$450. The principal creditors are growers, to whom money is due on consignments. Those holding the largest individual claims are A. T. Jackson, \$409; F. Stielow, \$239; M. E. Page, \$234, and George Hancock, \$100. The balance is made up of a large number of smaller claims. The business, as last established, has been running less than a year.

Mr. W. W. Coles, of Lansdowne, Pa., reached the city Monday last week to look over the ground preparatory to locating some point near here and grow flowers for the Chicago market. He left for home again the following Wednesday with several propositions under consideration. Mr. Coles was much pleased with the appearance of the city. He liked the stir and bustle on every hand, and after sizing up a few rows of fourteen story sky-scrapers and finding that one in course of erection would have twenty stories, he concluded the town was about his style. He expected to buy land and begin building very shortly.

Mr. John E. Bohan has been traveling through the south since he left the Garfield Park Rose Co. He was much impressed with Texas and particularly with Dallas and Fort Worth. He drifted up into Oklahoma Territory, and says the appearance of the crops was simply great, but the houses were very crude as yet. He visited Oklahoma City, which he describes as a typical frontier town. He did not hear of the Oklahoma Floral Co., recently started there, and expressed wonder that anyone could find any encouragement to start a floral business there. Mr. Bohan visited Nashville, New Orleans, Birmingham, Ala., and other Southern cities also.

On July 1 Mr. P. J. Hauswirth succeeded to the retail business which has been conducted for so many years by Charles Reissig. Mr. Hauswirth is very popular with the trade, and all wish him success as proprietor of the business which he has in past years done so much to advance as an employee.

At the adjourned session of the last meeting of the Florist Club some stiff scores were made and one given as the closest on record among the florists here. The average was 175 on one side and 176 on the other. These were considered pretty good averages and the game close enough to be interesting. The highest individual score was 218.

The market last week was extremely flat. Still there is no apparent glut of stock at present, in fact the rose crop is short. The reason for this is quite plain, as the growers can handle it, and the new stock will not be in for three months, so we are depending entirely for good roses



PLANTS GROWING ON MOSSED WALL.

on what is grown expressly for the summer trade and there isn't enough of this to supply even the limited demand. Beauties and La France are fairly plentiful and as good in quality as were ever seen in July. Beauties particularly sell well and bring from \$2 to \$3 a dozen.

Peter Reinberg, has a house of Woottons just coming in, the flowers are very fine in shape and of good color and of fairly good size. We notice quite a number of growers who are going to give this rose a trial. Mr. W. N. Rudd, superintendent of the Mount Greenwood Cemetery, is quite enthusiastic about this rose, having tried it on a limited scale last season. He intends to devote a new house, 100x20 to it, feeling confident that he will be able to grow this fickle beauty as well as anybody "down east." We hope he may succeed.

No action was taken at the last meeting of the World's Fair Directory regarding the appointment of Wm. G. Forsyth as Chief of the Horticultural Department. The committee having the matter in hand had appointed a time for a meeting but there was not a quorum present and the matter still hangs fire. Among the objections urged against Mr. Forsyth was the alleged fact that he was not a citizen of the United States. It is reported in the daily press that this was a fact and that on receiving a query from Chicago as to the truth of the assertion made, Mr. Forsyth, who was in California at the time, immediately took out his naturalization papers. It seems hardly credible that a man who was not a citizen should have been appointed a national commissioner for the fair, and have held that position unquestioned for four or five

months. It seems to be generally accepted that Mr. Forsyth's name will be rejected by the local directory, and it is reported now that the department will be partly organized, by the appointment of the heads of the sub-divisions, under the temporary supervision of the Chief of the Bureau of Agriculture, until the Director-General shall name a man who can receive the endorsement of both the Board of Control and the Directory.

Mr. J. E. Beebe of Denver passed through the city last Monday. He has been visiting the principal rose growing establishments in the east for ideas and stopped over to see if he could find any additional ideas around Chicago. He will build some rosethos embodying the best of these ideas on his return and hopes to thus meet with better success in producing roses for the Denver market than in the past.

The Horticultural Society of Chicago will hold its regular quarterly meeting next Saturday afternoon at the Sherman House. In addition to the paper on hardy plants by Mr. J. A. Pettigrew, there will be another essay, by Mr. Edgar Sanders, on some subject of his own selection. The meeting promises to be a very interesting one.

Dr. J. A. Kennicott found among his poppies a very double flower of a remarkably handsome shade of pink that was evidently a cross between a purple and a white variety that stood close together.

Down near La Salle is one of the most beautiful glens in the country. It is but little known from the fact that it is some five miles from a railroad station and inconvenient to get to. But the scenery is really wonderful, especially located as

it is in the prairie state where but little of the way of scenery can be discovered. Mr. John Thorpe recently visited the glen and could not find words to express his admiration. The glen consists of what would in the far west be called a canyon, in which the flora is most interesting. It is easy of entrance at one end, but there is no outlet at the other, and it was used by the Indians as a trap for game, which was driven in and then dispatched, being unable to escape except by the entrance which was of course guarded. In this beautiful and interesting spot Mr. J. C. Vaughan has erected a summer home in the shape of a picturesque log house and here his family is sojourning during the heated term. On Friday or Saturday of each week Mr. V. disappears from Chicago to seek his rustic summer home in the glen and reappears here on Monday. Not far distant from the glen is a rock thrown up to a height of several hundred feet by some mighty convulsion of the earth, that has an interesting story connected with it. It is called "starved rock," and the story runs that a tribe of Indians was once forced to take refuge on this height from the other tribes that were warring against it. The position was impregnable, but the foes surrounding them kept guard below until every member of the tribe on the lofty rock had perished from hunger and thirst.

Toronto.

Mr. W. J. Stewart, secretary of the S. A. F. will pay a flying visit to Toronto next week to arrange various matters concerning the convention and obtain full particulars for the completion of the preliminary programme of proceedings. He has fortunately been able to time his visit so as to be present at the regular monthly meeting of the Toronto Gardeners' and Florists' Club on the 8th inst.

Mr. D. B. Long, of Buffalo, has also promised to run over on that day and talk over arrangements for a meeting of delegates from Gardeners' and Florists' Clubs during convention week.

Applications for space for trade exhibits are coming in apace, there is promise of a big show. Apply early. Mr. Thos. Mantou, florist, Eglinton, Ont., is the man to talk to about it.

Bowling seems on enquiry to have almost died out in Toronto, or rather it has been nearly crushed out by the efforts of some over pious people. At any rate it seems difficult to find a decent alley at this time, though I have no doubt one will turn up before long.

Weather has been beautiful here lately, warm with refreshing showers now and then; plants have got a grip of the ground now that will keep them going all summer. E.

Providence, R. I.

The June exhibition of roses and strawberries by the Rhode Island Horticultural Society was one of the prettiest and most successful ever given by the society, in spite of the unfavorable weather that prevailed. On account of the weather the exhibition was continued a day longer than intended.

Messrs. George Hunt, James Nisbet, Wm. Butcher and Wm. Hodgkins acted as the committee on plants and flowers and they made awards as follows:

Roses—For best 20 distinct named varieties, 1st N. J. Cady, 2d Roger Williams Park, 3d N. D. Pierce Jr.; for best 10 distinct varieties, 1st N. J. Cady, 2d N. D. Pierce Jr., 3d Roger Williams Park; for best 6 varieties, 1st N. D. Pierce Jr., 2d

Silas W. Manchester, 3d T. P. I. Goddard; for best 3 varieties, 1st N. D. Pierce Jr., 2d J. J. Cady; for best specimen bloom named, new variety, never before exhibited, Jeremiah Briggs; for hybrid perpetual, 1st N. D. Pierce Jr., 2d J. C. Nicholls; for hybrid teas, James Nisbet; for teas, William H. Haskell; for moss roses, N. D. Pierce Jr.; for tender roses, James Nisbet; for plants in pots, 1st Mrs. T. P. Shepard, 2d J. Sheldon & Co.

Cut flowers—For best collection of ferns, Mrs. T. P. Shepard; for native flowers, best varieties and best arranged, 1st L. F. Cran, 2d Mrs. Julia Addeman, 3d E. H. Wilson; for best arranged basket of flowers, Mrs. R. Jencks; for pansies, 1st John M. Lee, 2d E. A. Whiting.

For stand of cut flowers and ornamental leaves, 1st S. W. Lewis, 2d T. P. I. Goddard, 3d F. L. Gay.

For herbaceous plants, Mrs. S. A. Church; for basket of flowers loosely arranged, 1st Mrs. T. J. Hill, 2d C. W. Stephenson; for ornamental vase of flowers, 1st Mrs. R. Jencks, 2d Mrs. T. J. Hill.

Boston.

The hush of July is upon us and save for the occasional unfortunate who calls for funeral tributes the flower stores are deserted and still.

The growers with a regularity born of long and steady practice appear in town every morning although they have little to sell and nobody wants to buy, and they claim to be very busy yet with their new planting, new bushes and general repairs. Montgomery Bros. record two new houses at Wellesley this season, and the Waban Conservatories are also increased by the addition of two very fine houses. The tendency of prices during the past two years in this market is not calculated however to encourage much new building at present.

The Gardeners' and Florists' Club will hold its annual excursion and picnic on Tuesday, July 21. After a cruise down the harbor a stop will be made at Lovell's Grove, Weymouth Landing, where dinner will be served and various pastimes indulged in. The ladies will accompany them this time and preparations are being made for a grand time.

The following letter has been received:

WELLESLEY, June 13, 1891.

DEAR SIR: I beg to acknowledge the receipt of a very handsome vase, the gift of the gardeners and florists, and you will please convey to them my best thanks for the same, with the assurance that this kind attention to their part will be fully appreciated and valued by me.

Truly yours, H. H. HUNNEWELL.
To the President of the Gardeners' and Florists' Club of Boston. W. J. S.

News Notes.

DENVER, COLO.—Braun & Miller have dissolved. James L. Miller will continue the business.

OSHKOSH, WIS.—The fair and exposition of the Oshkosh Fair Association will be held September 21 to 25 inclusive. The association offers \$100 in cash premiums for plants and flowers.

WAVERLY, MASS.—The Belmont Horticultural Society held its annual exhibition of roses, wild flowers and strawberries June 26. A very excellent display was made. Dancing followed the close of the exhibition.

DENVER, COLO.—Mr. and Mrs. C. R.

Gallup are on a six-week's trip to Alaska. Mr. J. D. Carmody, of Evansville, Ind., is in the city. Mr. J. E. Beebe is visiting rose growing establishments in the east with the view of getting points for his new range of rosehouses.

LOUISVILLE, KY.—Jacob Schulz has a fine variety of water lilies in bloom now. They are attracting much attention as there have been few colored ones raised here. Nanz & Neuner are showing handsome colored poppies of great size. The twenty-four greenhouses of Francis Morat's Sons & Co. have been turning out large quantities of flowers.

ST. LOUIS.—The coming exhibition of the St. Louis Florists' Club will be held in the Music Hall of the Exposition building November 11 to 13. The club at its last meeting appointed an Exhibit Committee composed of Messrs. J. M. Jordan, Eugene H. Michel, John Young, Wm. Schray and Robert Tesson, and a Financial Committee composed of Messrs. John Young and Eugene H. Michel.

SYRACUSE, N. Y.—At the last meeting of the Central New York Horticultural Society, it was decided to hold a chrysanthemum show in November, the date to be fixed later. The prospects are that it will be the finest show ever held by the society. Many of the best new varieties have been bought by the members, and in spite of the long continued drought the plants have made a splendid growth.

BALTIMORE.—If there be not some beautiful specimens of fine chrysanthemums displayed by little Baltimore girls and boys at the flower show next autumn, it will not be for want of trying, for the children have taken hold of the suggestion made recently by the Gardeners' Club to admit them in the competition, and are going into floriculture with an eagerness and interest fully worthy of the cause. Members of the Gardeners' Club have received letters from parents, school teachers, and pupils in private and public schools and institutions, all expressing deep interest in the new departure. Children call upon the florists every market day to inquire about the new plan or to make requests for the free plants that will be later on distributed by the club. Among others, the head of a prominent institution wrote to the Gardeners' Club, inclosing a list of names of children who desired to enter into the competition, and stating that the institution "was anxious to encourage the love of plants, and to teach the children under its charge to care for them intelligently, believing such taste to be of real benefit in the formation of character, as well as giving much pleasure."

CINCINNATI.—The trustees of the Holroyd bequest of \$15,000 for the erection of an exclusive flower market house in the Sixth street market place, have adopted plans, and are ready to erect a handsome structure composed of iron and glass. Over the market proper is to be a hall for flower shows and other purposes. The trustees are ready to build, but it is rumored that as soon as they attempt to break ground they will be enjoined by a confederation of kickers owning or leasing property on both sides of Sixth street, between Elm and Plum streets. Now the city has, through the action of the council and the mayor, accepted the Holroyd bequest with all its conditions, and the question remains to be settled whether the city will resist the threatened injunction. The trustees of the bequest

declare that they will not budge in the matter. They consider their duty done and fully done in adopting plans for the flower market house and seeing them completed. If the city does not interfere and protect her own rights in this matter the trustees will annul the bequest, and the money will revert to the heirs, as the will and testament provide. Such an outcome will certainly be very unfortunate.

Coming Exhibitions.

July 22-23, Toronto, Ont.—Flower show Toronto Electoral District Agricultural Society. J. P. Edwards, Sec'y, 146 Wellington St. West.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society. Thomas Vair, Sec'y.

September 8-10, Hartford, Conn.—Fall exhibition Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 2-7, Louisville, Ky.—Chrysanthemum show Louisville Florists.

November 2-8, New York.—Chrysanthemum show Madison Square Garden. J. W. Morrissey, Sec'y, Madison Square Garden.

November 2-5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 3-6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club. W. H. Ellis, Sec'y, 133 Mason St., Milwaukee.

November 3-7, Detroit, Mich.—Chrysanthemum show Detroit Florists. Robert Flowerday, Sec'y, 460 John R. street.

November 4-6, Wooster, O.—Exhibition Wooster Floral Club. W. A. Porter, Sec'y.

November 5-7, Erie, Pa.—Chrysanthemum show Erie Chrysanthemum Club. H. Tong, Sec'y.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y, 811 North Water street.

November 10-12, Pittsburg.—Chrysanthemum show Pittsburg and Allegheny Florists' and Gardeners' Club. C. Osterle, Sec'y, 508 Smithfield St., Pittsburg.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society. James Galvin, Sec'y.

November 10-12, Toronto, Ont.—Chrysanthemum show Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School, Toronto.

November 10-12, New Bedford, Mass.—Chrysanthemum show New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.

November 10-12, Washington, D. C.—Chrysanthemum show Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St. N. W.

November 10-13, Philadelphia.—Chrysanthemum show Pema. Hort. Society. D. D. Eason, Sec'y, Horticultural Hall, Broad St.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago. James D. Reynolds, Sec'y, Riverside, Ill.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.

November 11-12, Worcester, Mass.—Chrysanthemum show Worcester County Hort. Society. Edward W. Lincoln, Sec'y, 5 Oak St.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society. Thos. Vair, Sec'y.

November 11-12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.

November 11-13, St. Louis.—Chrysanthemum show St. Louis Florists' Club. S. Kehrman Jr., Sec'y, 21 South Broadway.

November 11-13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society. George D. Pratt, Sec'y.

November 11-13, Utica, N. Y.—Fall exhibition Utica Florists' Club. J. C. Spencer, Sec'y.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society. Chas. Wise, Sec'y, Third and Prytanee Sts.

November —, Buffalo.—Chrysanthemum show Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.

November —, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

November —, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.

November —, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society. Wm. Gamgee, Sec'y, P. O. box 155.

November —, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society. Thos. E. Meehan, Sec'y.

November —, New Haven, Conn.—Chrysanthemum show New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 478 Orange street.

November —, Syracuse, N. Y.—Chrysanthemum show Central New York Hort. Society. H. Vouell, Sec'y, 228 Beecher street.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads not admitted under this head.

SITUATION WANTED—A live young man wishes to obtain charge of sale place; 12 years' experience, last two growing for the Boston market. Well recommended. Send particulars and receive name. P. O. Box 51, Brookline, Mass.

SITUATION WANTED—By a practical commercial florist, good rose and cut flower grower; German 20 years of age, in or near Chicago. Can give best of references. Address C. F. Care American Florist, Chicago.

SITUATION WANTED—As florist or nurseryman. Can do all kinds of nursery work in all its branches, such as budding and grafting; able to take charge of nursery, 30 years' experience. Address H. M. Care American Florist, Chicago.

SITUATION WANTED—As propagator and grower of all kinds of stove and greenhouse plants with good knowledge of grafting; 7 years' experience in commercial business. Address J. S. Care American Florist, Philadelphia, Pa.

SITUATION WANTED—By experienced florist, to take charge of private or commercial place; thoroughly experienced in all branches. Are 29. First class references. Address PRACTICAL, Care American Florist, Chicago.

SITUATION WANTED—By a first class florist; German, married; good rose and cut flower grower; experienced in greenhouse plants, orchids, palms and ferns. Best of references for commercial or private place. Address J. B. Care Am. Florist.

SITUATION WANTED—By practical, trustworthy gardener, as general manager of private or public grounds or large commercial plant; thoroughly experienced in all branches; particularly qualified in roses, alibis, B. tree, stock in general, and landscape gardening; unexcelled in stove plants, palms and orchids; a successful hybridizer; 20 years' experience; sober. A first class place only required. Unexceptional reference. Married, small family. Address, stating wages, Forbes St. and Craft Ave., Pittsburg, Pa.

WANTED—Boiler, second-hand; Hitchings, Myers or similar make; capacity, 2,000 feet.
Box 35, Maywood, Ill.

WANTED—A second-hand hot water heater and some pipe. State condition, size, make and price.
I. L. PILLSBURY, Macomb, Ill.

WANTED—Female florist, English or German preferred. A home and money to be given principally to right party. A good chance. Address FLOWERS, BOX 6 Chattanooga, Tenn.

WANTED—A first class orchid, palm, fern and plant. Want all kinds of place—out doors principally. Must be first class, none other needed. Address R. J. MENDESBALL, Minneapolis, Minn.

WANTED—Competent man to take charge of a commercial place—out doors principally. Good steady position to first class man—married preferred.
F. W. WHITELEY, Landoway, Pa.

WANTED TO RENT—For a term of years, or for a year, a first business place, about 5,000 to 10,000 ft. of glass in a good location, where a live man could make it pay. Address F. S. KIRBY, Staatsburg-on-Hudson, N. Y.

WANTED—Floral artist. Position will be vacant October 1st. Must be skillful, quick and of pleasing address. A good situation for a good man, none other need apply. Give reference and state salary expected. Address M. & J. R. MURDOCH, Pittsburg, Pa.

WANTED—A good greenhouse worker; must understand the business; must be sober, industrious and well qualified; single man preferred; good position and steady place to the right man; send reference and wages expected.
J. M. MENTZ, 65 Broad St., Newark, N. J.

FOR SALE—One Hitchings boiler in good condition.
R. D. DAVIS & SONS, Morrison, Ill.

FOR SALE—A well established and paying retail florist business. Address Box 1024, Duluth, Minn.

FOR SALE—A second-hand Devine boiler 10 feet long and 23 inch flues in it.
A. H. SCHWEDER, Oak Park, Ill.

FOR SALE—2,000 feet of 4-inch pipe; also one No. 16 Hitchings boiler in good condition.
WM. A. BOCK, North Cambridge, Mass.

BOILERS FOR SALE.

No. 1, Upright horse power used 4 years \$25.00. No. 2, Horizontal horse power, used 10 yrs. \$30.00. Both boilers in good condition, and heated the same glass space that we now heat with a Gibson power boiler. DE WITT BROS., Bristol, Pa.

BOILER WANTED.

A second hand Hitchings. State price, size and length of time used.

M. R. CATLIN, 723 S. Laurel St., Richmond, Va.

FLORIST BUSINESS.

FOR SALE CHEAP—On account of ill health the proprietor will sell the whole for cash on deposit, the balance of purchase money on easy terms to suit buyer. It consists of ten greenhouses (17,000 feet), handsome two-story dwelling, stable, etc., etc., situated at Flatbush, near Brooklyn city line and within few minutes' walk of horse cars and railroad station. Full particulars address

ANDREW HARTH, Flatbush, L. I., N. Y.

Send for the List of

H. Yoshuke's New Chrysanthemums

and of his valuable collection, which contains almost all the largest and best Chrysanthemums existing in the world.

H. YOSHUKU,

The Japanese Chrysanthemum Raiser.

1064 22d St. cor. Linden St., OAKLAND, CAL.

COLEUS Verschaffeltii, Golden Bedder, Golden Sunset, etc. Verschaffeltii, Sunset, from 24-in. pots, \$2.00; 32-in. pots, \$2.50. From 10-in. pots, \$2.00; 10-in. pots, \$2.50. Large stock plants, \$5.00 per 100; \$4 per 100. All orders shipped C. O. D.

JOHN RECK, Bridgeport, Conn.

HOW CAN YOU GET ALONG WITHOUT OUR

TRADE DIRECTORY?

AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,

NEW ROCHELLE, N. Y.

New and

Rare Plants

Hardy

Plants.



ORCHIDS

PALEMS,

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CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

A FRESH CONSIGNMENT OF MEXICAN ORCHIDS

Such as *Lelia anceps* (winter bloomer), *Lelia albidia*, *Cattleya citrina* (extra fine), *Epidendrum vittatum majus*, *Odontoglossum aureum* (true), *Odontoglossum maculatum*, *Oncidium orthocorymbosum*, etc., at very low prices.

Write for price list.

FREDERICK MAU, P. O. Box 322, South Orange, N. J.

ORCHIDS.

The finest stock in the WORLD. Nearly 500 acres devoted to their culture.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

100 FOR \$25.00.

Orchids.

BRACKENRIDGE & CO.,

Established 1854. Gowanstown, Md.

THE FAMOUS Azarea Vervæniana.

Having made a contract with Mr. B. Maenhout van Melle, of Ghent, Belgium, to handle this beautiful variety, we can offer them by the thousands at very reasonable rates.

MULSEBOSCH BROTHERS,

P. O. Box 3118, NEW YORK CITY.

VERBENAS.

IN BUD AND BLOOM.

	Per 100	Per 1000
General Collection, bushy plants.....	\$2.50	\$20.00
XX Mammoth Set.....	3.00	30.00
Coleus, fine collection.....	3.00	
Amson Verbenas, strong, 1 year old or 3.00		
Vincas, strong, 1 year old.....	8.00	75.00
Angelopsis Verbenas, strong.....	9.00	75.00
Chrysanthemum varieties and plants on application		
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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in horticulture pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted. Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

AWARDS AT EXHIBITIONS.

A method of making awards at exhibitions which Mr. J. M. Jordan tells us was employed at an exhibition in St. Louis last year, has a good many excellent features. Instead of offering first, second and third prizes in the various classes, a lump sum was offered for exhibits in that class. The entries were judged by points and the amount divided among the competitors in proportion to the number of points given each by the judges. For instance \$250 is offered for groups of decorative plants and there are five competitors, whose exhibits are decided to possess meritorious points as follows: A, 80 points; B, 65 points; C, 85 points; D, 50 points; and E, 70 points. Then A receives \$57.15; B, \$46.42; C, \$60.72; D, \$35.70; and E, \$50.01. These results are obtained by adding together the number of points given each of the entries and dividing the amount to be awarded by this sum. This gives the amount of cash to be given for each point and the amount due each one is quickly ascertained by multiplying this amount by the number of points the entry was judged to possess.

In the supposititious case given the sum of the points awarded (80, 65, 85, 50 and 70) is 350. Dividing \$250 by 350 we get \$.7143 plus; 80 times this gives us the amount A is entitled to: 65 times, the amount B receives, and so on.

This certainly seems to be a very equitable arrangement, the prizes being awarded in proportion to the exact degree of excellence each exhibit possesses, in the opinion of the judges. And Mr. Jordan tells us that at the exhibition where the plan was adopted it brought out a magnificent display, as each exhibitor was assured of receiving something. The men who felt that it would be useless for them to attempt to compete with large growers were not scared out of competition, for while they could not make as elaborate a display they were sure of receiving recognition in proportion to what they were able to do. And again if they happened to lose first place by only a few points, this slight difference in excellence made their proportion of the prize but a trifle less than the other, instead of a very great deal less as when an arbitrary amount is fixed as a second prize.

This system of awarding premiums at exhibitions has many good points to commend itself to our consideration.

At the St. Louis exhibition the competitors were themselves the judges. That is, all the competitors in a certain class acted together as a committee in judging each entry except his own, each casting a ballot on the point system. And this worked very satisfactorily. Some friction was developed in this case by making the one whose entry was be-

ing judged, the custodian of the ballots, and the ballots being signed he could thus see how each one voted; and if one of the party voted very low on his entry, he would be apt to "get back at him" by voting "way down" when it came his turn to pass upon the other fellow's entry. But with a disinterested person to act as custodian of all the ballots this objection was overcome.

INTEREST the newspaper men now in your coming exhibition. Endeavor to have placed before the public frequent notices of matters accomplished in the way of preparation. Send the editor a basket of flowers and with it a copy of your premium list. And when flowers are plentiful remember him frequently. A bunch or basket of flowers is a very pleasant reminder and always acceptable. A bald request for a notice comes harsh to the ears of the editor, but a basket of beautiful flowers, accompanied with some printed matter that will supply material for a notice, will almost always get there. Never beg, but don't fail to suggest. And when you get your tickets printed don't fail to send the editor a liberal allowance of complimentary, and don't slight the humble reporter, for if he fails to write a good report, your having the kindly feeling of the editor don't amount to a great deal. Once in a while you will strike an editor or reporter who is a pirate and who will endeavor to work you for all he can, but these are rare exceptions and are very infrequently found with journal's of influence and standing. But the outlay is small in proportion to the returns, so it pays to treat everyone well, pirates and all. And when the exhibition is open be certain to have some competent person at liberty to devote his time to the reporters, to explain anything he don't understand, to give him points for his report. Make sure that he does not leave the place without something to write about, for otherwise he may draw on his imagination or cut it mighty short.

WE HOPE that at the coming session of the S. A. F. the various essays will all be read by someone with a powerful pair of lungs and accustomed to speaking in a large hall. The men who can prepare the ablest essays are rarely good talkers and when they attempt to read their essays before such a large body as the S. A. F. sometimes but a small number of those in the audience are able to hear so as to thoroughly understand. This is not only very unsatisfactory to the listeners but much is lost to the society through lack of discussion of the essays, for how can anyone discuss the subject of the essay without having heard what the speaker has said? It has been said that to have the essays read by another than the author would destroy much of their individuality. Granted, but it is certainly preferable to be able to understand the essayist's views, even without his visible presence, than to be able to see him and hear nothing, or so indistinctly as not to understand him. If the essays were all type-written any good reader with a strong voice would fill the bill, even if he was untamilar with the subject matter.

DON'T FORGET that cost of production is one of the most important questions before the trade to-day. Do you know whether the geraniums you sold this spring brought you more than cost you to grow them? If you don't know, then you are playing "blindman's buff" rather than conducting a business on business

principles; and some day, while thus blindfolded, you will fall down stairs or out of the window. Yes. Of course. After you have grown the plants you had better sell them for 50 cents a dozen than to throw them away, but one experience of that kind ought to be enough. You said the same thing last year. Why didn't you profit by your experience? If you are growing stuff at a loss you must either reduce the expense of growing, obtain a more remunerative price, or quit. If your neighbors sell geraniums at less than the cost of producing, buy of them, if you need any, but don't be so foolish as to do such things yourself just because your neighbor does.

A PROBLEM that the Society of American Florists has had before it for years is the securing of a hall for the annual sessions which would be away from the noise of street traffic and still be of suitable size and accessible. In August the windows must be kept open for the purpose of ventilation, and the noise of heavy wagons rattling over stone pavements, the bells of street cars, and other noises of the street penetrate freely to the hall and are a serious annoyance. Hence members will be glad to learn that at Toronto we shall be free from each and every one of these unpleasant features. The sessions will be held at the pavilion in the Horticultural Gardens, where we will be surrounded by beautiful and peaceful landscape effects instead of crowded and busy city streets. We anticipate at Toronto a greater degree of pleasure in listening to the essays and discussions on same than at any previous session of the S. A. F.

A VERY FINE collection of tuberous begonia flowers has been sent us by Mr. A. C. Parfrey, Richland Center, Wis. One of the single flowers measures 6 inches across and several exceed 5 inches. The doubles range from 2 to 3 inches across. All are of good colors and we can readily believe that the plants make a fine display of bloom in Mr. Parfrey's greenhouse as he says they do. He has about a thousand plants in variety. The flowers sent compare very favorably with those previously sent us by others.

OUR ANNUAL convention supplement which will be published with our issue of August 13 will contain a sketch map of the city of Toronto on which will be prominently indicated the Convention Hall, hotels at which rates have been secured, and many other items of immediate interest to the visiting members. Advertisements for the supplement will be received at usual rates.

THE TIME for the annual convention of the Society of American Florists is approaching. Will you attend? Better begin now to shape your affairs so that you can safely leave your business for a week or so in August. The man who has regretted the time and expense of attending these conventions has yet to be found.

HOW DID your spring plant trade compare with that of previous years? We would like a report from every reader who grows plants for market and bedding.

JUST BEAR in mind that the AMERICAN FLORIST goes to everyone in the trade and when you advertise in its columns you reach every florist in America.

IF you have anything to sell to florists don't fail to place an adv. in our convention supplement, to be published with our August 13 issue.

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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTHOLES, Lawrence, Kan., president; A. L. DICK, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

MR. ROBERT BUIST will sail for Europe soon.

MR. W. ATLEE BURKEE was in Paris June 25.

MR. WM. MEGGAT will start for California about July 20.

ONION SEED in California from present outlook will be about 70 per cent of a full crop. Other seed crops are looking well.

MR. C. C. MORSE of Santa Clara, California, passed through Chicago July 1 on his return from a three months trip in Europe. Mr. M. is anxious for a representative man in the horticultural department of the World's Fair, and thinks California has taken more than her share in the classification.

Setting Day.

ED. AM. FLORIST.—I notice an article in a late AMERICAN FLORIST about June 1 being "setting day" among the seed trade, and it would perhaps be of interest to your readers, or at least some of them, to know whether June 1 is considered setting day or not. Some parties seem to think that June 1 is the date to send in statements, and that payment is allowable any time afterward; others contend that a statement is virtually an acknowledgment that the bill is due, and that a settlement should be made within a reasonable time. There being some controversy on this subject, your advice would be very acceptable. GROWER.

A Good Time with Mr. Maule.

Upon the invitation of Mr. Wm. Henry Maule, the Philadelphia seedmen and those interested in the trade visited "Briar Crest," Mr. Maule's residence, near Villanova, Pa. Every invitation was accepted. The trial grounds of hundreds of vegetables and flowers were highly interesting, and the scrupulous cleanliness of the entire place was commented upon. One very prominent seedman was heard to say that the "potato test" was the best he had ever seen.

"Briar Crest" is certainly one of the most beautiful places in Pennsylvania. Being situated on high ground it commands a magnificent view of the rich surrounding country in every direction. The hardy shrubbery, fancy bedding, elegant lawns and extensive stables, barns, lodges, etc., were all greatly admired.

It would take a full page of the AMERICAN FLORIST to describe all the interesting features of "Briar Crest"; they certainly were highly appreciated and complimented by the visitors.

Some of the Philadelphians met each other for the first time at "Briar Crest." There was no game of ball, but a regular game of "Puns."

One might have thought the Landreths and Bob Buist were "twin" brothers.

Mr. Ely claimed the trial grounds had been weeded out at night by electric light in preparation for this visit.

Mr. Maule's assistants both from the warehouse and the P. F. office helped entertain the guests.

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Hail Insurance.

The man who first conceived the idea of organizing the Florists' Hail Association deserves the thanks of every florist in America. Nothing could be more beneficial. It gives the fortunate a chance to assist his unfortunate neighbor. The organization is one to which every florist who is careful to consult his best interest should belong. With the active co-operation of every florist, great and small, in America, the officers and directors can accomplish much. At the very low rates made by the association no florist can afford to carry his own risk. With five or six million feet of glass insured, their plants also could be insured.

The majority of the Cincinnati florists have not been awake to the real benefits to be derived from the association. Many of them seem to be waiting until the storm comes before they insure, and many claim they are not in the hail belt, which experience proves to be erroneous.

However, many now declare they will insure since the terrible storm of June 5. I am sure if those who hesitate could see our own place with nearly 10,000 square feet of glass broken, out of 12,000, they would soon decide. Unfortunately our glass was all imbedded in putty that is very solid, so we have quite a job cleaning the bars.

Considering the size of the job before us, we are inclined this time to glaze without putty, but use the putty ball well on top and maybe on the rabbet also. We would be thankful for any suggestions on this point. We have been agreeably surprised to see our roses doing remarkably well since the storm. We anticipated a heavy crop of mildew from such a sudden exposure, but not a particle has appeared. The roses speak for themselves; they want more ventilation in hot weather than they get from the ordinary ventilator in a fixed roof. Movable sash, where convenient, are excellent.

In conclusion we wish to thank the officers and directors of the Florists' Hail Association for the remarkably prompt settlement of our claim.

College Hill, O. CORBETT & WILSON.

OUR CONVENTION SUPPLEMENT will be published with the issue of August 13, and the map and directions it will contain will, we believe, be of considerable value to those attending the meeting at Toronto. Exhibitors wishing to call special attention to their exhibits will find the supplement a very effective medium.

Waban Rose.

AGENTS:

WM. J. STEWART, Boston, Mass.
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Our stock of these is in exceptionally fine shape, very healthy and in the best possible condition for planting. It is the same stock we use for our own planting, but grown in excess of our own wants. They are entirely free from mildew. The American Beauty is free from black spot, and all are in perfect health and perfect condition in every respect. Buyers will find it to their advantage to inspect our stock before purchasing. Write for prices.

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We obtained first prize, two consecutive days, above all competitors for our exhibit of "American Beauty" at the flower show of the New York Florists' Club, held at the Lenox Lyceum in New York City, in April.

F. R. PIERSON & CO.,
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This is a rare opportunity for florists and others to secure extra fine plants at low prices.

Correspondence solicited. Secure the varieties you want by ordering early. Rose Catalogue mailed free to any address.

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ROSES A SPECIALTY. ROSES.
THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants. Catalogue of Prices Now Ready.

ROSES.

We offer for sale this season, 30,000 FIRST QUALITY FORCING ROSES grown from two-eyed cuttings in 3 and 4-inch pots, ready for immediate planting.

MME. HOSTE, LA FRANCE, SOUV. DE WOOTTON, 3-inch pots, \$9.00 per 100; 4-inch pots, \$12.00 per 100,	SUNSET, BRIDE,
PERLE DES JARDINS, NIPHEOS, SAPHYRA, MERMET,	
BON SILENE, PAPA GONTIER,	
3-inch pots, \$7.00, 4-inch pots, \$10.00 per 100.	

Send for our Rose Circular. We wish every florist needing Roses to read it.

J. L. DILLON, Bloomsburg, Pa.
Mention American Florist.

DIRECTORY.

Every Florist, Nurseryman and Seedsman should have one.
AMERICAN FLORIST CO., Chicago.

CHOICE PANSY SEED.

Mammoth Sunbeam Strain.

One of the best strains of Mammoth Pansies yet produced; very large, of good form and brilliant colors. Extra fine; receives high praise. Many of our customers of last season write me very complimentary letters. Trade list \$2c.; for 50c. 6 for \$1.
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Pansy Seed.

CHOICEST QUALITY AND STRAINS OBTAINABLE.

Trimardeau, choicest French mixed, unsurpassed in brilliancy of color and size of flowers, some measuring from 3 to 4 inches across per lb., \$25 00; per ½ lb., \$15 00.....	\$2 50	\$1 50	\$1 00	\$ 75	\$ 50	\$ 25
Same, golden yellow.....	3 00	2 00	1 50	1 00	1 00	25
Same, purple.....	4 00	2 50	1 50	1 00	1 00	25
Order, or Imperial, Paris Pansies, Sand's blotted, extra.....	4 00	2 50	1 50	1 00	1 00	25
DE VEER'S CHOICE MIXED.....	4 00	2 50	1 50	1 00	1 00	25
Bugnot's, new, assorted, large flowering show Pansies, somewhat smaller than Trimardeau, but of even more exquisite markings and richer colors, pronounced by many the best strain produced yet. This variety produces few seeds, and is yet very scarce.....	6 00	4 50	3 00	2 00	1 50	50
Cassier's, 3 and 5 blotted, Giant, extra fine.....	6 00	4 50	3 00	2 00	1 50	50
Roemer's, new 5 spotted Giant, producing enormous flowers.....	1 50	1 00	75	50	40	20
Improved Large Flowering, (fine strain), mixed.....	1 50	1 00	75	50	40	20
Black tinted golden bronze; white, pure; yellow, pure; each.....	1 00	75	50	30	20	15
Light bronze; dark bronze; Emperor; Sultan; blue.....	75	50	30	20	15	10
Faust, King of the Blacks, fine for bedding; Lord Beaconsfield, purple.....	75	50	30	20	15	10
Malheur (rubra); Prince Beaumont, brown and golden bronze mixed; quadricolor; white; yellow; superior quality, mixed; each.....	75	50	30	20	15	10
Fine German mixed.....	50	30	20	15	10	5
Meteor, novelty of 1891, reddish brown.....	50	30	20	15	10	5
Peacock, beautifully blotched.....	50	30	20	15	10	5

CINERARIA.

Hybrida, good mixed, ¼ ounce, \$1.....	Per pkt.....	25
grandiflora, choicest mixed, 1,000 seeds, 75 cents.....	50	
" grandiflora dwarf, choicest mixed, 1,000 seeds, 75 cents.....	50	
" grandiflora kermelina, novelty 1891.....	50	
" choicest double mixed, 1,000 seeds, \$1.....	50	

PRIMULA.

Sinensis, fringed, fine mixed, 1,000 seeds, \$1.....	20
extra mixed, 1,000 seeds, \$1.....	25
ten varieties, each.....	25
double fringed, and single mixed, 1,000 seeds, \$1.....	25
five varieties, each.....	30

TERMS CASH. For other Seeds, Fall Bulbs, Florists' Supplies, Imported Nursery Stock, etc., write for Catalogues, if not yet received.

ADDRESS:

J. A. DE VEER,
154 East 34th Street, NEW YORK.

PANSIES.

PANSIES THAT ARE UP. No need to worry over getting the seed to come up, it is up and ready to plant when I send them.

It is not only the plants that are up, the strain is up also; up to, and a goodly number of my customers say, above any strain in the market. The price is down, considering the quality of the strain, seed as good would cost you about as much per 1000 plants. My price is \$5.00 per 1000, or in lots of 2,500 and over, \$4.50 per 1000.

SEND FOR LIST AND SHORT PAPER ON CULTURE.

PLANTS READY AUGUST 20th TO DECEMBER 1st.

SMILAX.

Plants ready July 1st and later. These will be nice and stocky, and ready to go right ahead. There is some 40,000 here; let me have a chance to till your order. Send 10 cents for samples and get my prices before ordering elsewhere.

L. B. 338. **ALBERT M. HERR, LANCASTER, PA.**

10,000 ROSE PLANTS.

Strong healthy stock in fine condition for planting, in 3-in. pots, \$8 per 100; in 4-in. \$10 per 100.

Perles, Mermets, Niphotos, Walteville, Gontiers, Sunsets, La France, Jacacs.

A. N. PIERSON, Cromwell, Conn.

ALSO 50,000 CELERY PLANTS, \$3.50 PER 1,000—GOLDEN HEART, WHITE PLUME, BOSTON MARKET.

ROSES FOR FORCING. ROSES

Bride, Perle, Mermet, Gontier, Duchess of Albany, Hoste, Sunset, La France, Bon Silene, Wootton, Niphotos, American Beauty, in 2, 3 and 4-inch pots.

OUR FAMOUS WORLD'S FAIR SET OF CHRYSANTHEMUMS, AND ALL THE LEADING VARIETIES.

Gernium novelties. New and old varieties of Carnations, Pelargoniums, Puchsias, Hydrangeas, Vincas, Violets, and other miscellaneous stock. Dracena terminalis, 4 and 5-inch pots. Prices given on application.

GEORGE W. MILLER, 1748 N. Halsied Street, CHICAGO.

ROSES FOR FORCING.

READY FOR IMMEDIATE SHIPMENT.

Fine plants from 4-inch pots of **AMERICAN BEAUTY, BRIDE, CATHERINE MERMET, MADAME HOSTE, PAPA GONTIER, PERLE DES JARDINS, DUCHESS OF ALBANY, Etc.** Prices Low.

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EVERY FLORIST SHOULD HAVE A COPY OF
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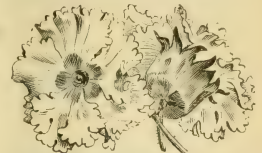
AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

SPHAGNUM MOSS CHEAP.

No sticks etc. Bale or barrel. Lowest price given on all you need. Gerniums and Fuchsias, nice and beautiful at low prices. Celery plants, \$5.00-50.00.

PETER J. SCHUR, Kalamazoo, Mich.

GARDINER'S SUPERB CHINESE PRIMULAS.



The Chinese Primula has long been a favorite florist's flower, and it has never been seen in greater perfection than now—some very rare and remarkable varieties having been produced within the past few years. Our strain is from a celebrated European seed is late, and is acknowledged to be superior to all other strains now on the market. The many flattering testimonials we have received warrants us in recommending this strain very highly.

100 seeds. 500 seeds. 1000 seeds
Choicest Fringed (not 100 seeds) \$5.00 \$2.00 \$3.50
leaved, beautiful colors.
Choicest Fringed (leaved) 50 2 00 3 50

Address all orders and correspondence to

21 North 13th St., Philadelphia, Pa.
JOHN GARDINER & CO.

Trade list of Foreign Stock now ready.
Trade list of special strains Flower seeds for florists on application.

PANSIES. * *

Plant your frames this fall with PANSIES that will SELL AT SIGHT. You want the BEST if you keep up with the procession. My strain cannot be surpassed for size, color, or substance of flowers. I know my stock will please, and I am prepared for a big rush.

FINE STOCKY PLANTS, once transplanted, \$5 per 1000 by express; 75c per 100 by mail. Special prices on larger lots. Orders booked now filled in rotation, or on any date desired after August 15.

ALEX. McBRIDE,
ALPLAUS, N. Y.

ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World.
Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

PANSY SEED

of the best quality, in 25 leading varieties, offered at greatly reduced prices.

HENRY METTE,

SEED GROWER AND MERCHANT,

QUEDLINBURG, GERMANY.
Trade Catalogue free on application.

Zirngiebel's GIANT MARKET AND FANCY PANSIES

New crop seed of those superb strains now ready, in trade packets of 1,500 and 600 seeds respectively, at one dollar each.

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.

Pansies, Extra.

The Jennings strain of large flowering Pansies, the finest in the market, is now ready. Florists who have used this strain say it is the best they can get. It is finer than last year's. Seed, finest mixed. . . . trade pkt 25c. 50c. \$1.00
Large yellow with dark edge. . . . 25c. 50c. \$1.00
Yellow, per ounce, \$5.00. Mixed, per ounce, \$6.00.
Plants in any quantity ready Sept. 1, 60 cts. per 100 y mail; \$5.00 per 1000 by express.

Address **E. B. JENNINGS** Pansy Grower,
SOUTHPORT, CONN.
Box 76.
Mention American Florist.

Postage on Plants, Etc.

In response to several queries regarding the rate of postage on plants, cuttings and cut flowers, we quote the rule of the postoffice department:

"The third class rate of postage now applies to seeds, scions, bulbs, roots, cuttings, and plants."

The rate of postage on third class matter is: "One cent for each two ounces or fractional part thereof, and must be fully prepaid by stamps affixed."

As will be seen, cut flowers are not specifically named among the articles noted as subject to the third class rate. And whether they come under the heading of "cuttings" seems to be open to construction.

It would probably be well to ask for a ruling from the Postmaster General on this point. If this has already been done by any of our readers we should be pleased to be made acquainted with the result.

They Suggest Ideas.

Ed. AM. FLORIST.—Having read your valuable paper for several years, I should like you to know that your suggestions and remarks about cut flowers are especially helpful, not only to the florists but also to their employees to whom the designing is so frequently left. We much appreciate the articles written by Messrs. F. S. Matthews and H. H. Battles. The cuts of baskets and designs we look at with interest; it is quite natural that every one who loves flowers, will study to use them to the best advantage, but reading of or seeing others' ideas or work will often suggest ideas of our own, and thus we go on further and better. I trust you will keep on giving us at intervals a sketch of this or that piece of artistic work. Accept hearty thanks for what you have already done.

F. J. L. MORT.

Louisville, Ky.

[We print the above for the benefit of some of our readers who find some of the arrangements we illustrate too elaborate for their purposes. They are not all intended as models to be accurately copied but as suggestions.—Ed.]

What price did you get for 4-inch geraniums at retail this year?

WATER ORCHIDS.

\$1.50 per doz.; \$12.00 per 100.

First class plants. Full printed directions for growing sent with each order. Send money when ordering.

MONTE SANO RUSTIC WARES CO.,

Box 65. HUNTSVILLE, ALA.
Mention American Florist.

SMILAX.

First Class Plants several times cut back, from 2½-inch pots, per 100, \$2.00; per 1000, \$18.00. 500 at 1000 rates.

THEO. BOCK,
HAMILTON, OHIO.

SMILAX.

Nice stocky well grown plants for immediate planting. \$1.50 per 100; \$12.00 per 1000.

FIRESTAN, fine well ripened, home grown bulbs (far superior to imported); \$1.25 per 100; \$10.00 per 1000.
OXALIS (Roses grandiflora), or Bowell, finest of all for home culture, per doz. 30c.; per 100, \$3.00.
CYCLOPS, fine Fern-like, per doz. 30c.; per 100, \$3.00.
Bulbs and stock, \$1.00 per doz.; \$8.00 per 100.

F. A. BALLER, Bloomington, Ill.

SMILAX.

First Class Smilax, \$2.00 per dozen; \$15.00 per hundred.

POEHLMANN BROS., Morton Grove, Ill.

ORDER NOW AZALEA INDICA.

Fine budded plants, best sorts at

Lowest Prices.

C. H. JOOSTEN, 3 Centuries Slip, NEW YORK,
Importer of **BULBS and PLANTS.**

Mention American Florist.



LATE CABBAGE PLANTS, for 10 days only, per 1000, \$1.50
5,000, \$7.00; 10,000, \$12.50.

CAULIFLOWER PLANTS, per 1,000, \$2.75; 5,000, \$12.50; 10,000 \$24.00.

CELERY PLANTS, per 1,000, \$1.75; 5,000, \$8; 10,000, \$15.

All the **STANDARD VARIETIES** and **GOOD NOVELTIES.**

Send for our **SPECIAL SUMMER PRICE LIST** and **Essay on Celery.** July 1st, 1891.

VAUGHAN'S SEED STORE, 146 & 148 W. WASHINGTON ST. CHICAGO.

FERNs.

ADIANTUM CUNEATUM, fine plants for shifting on, now ready.

BEDDING ROSES.

A few more of the leading varieties can yet be furnished in sizes suitable for immediate planting,

Beauty, Laing and Magna.

Five stock of the former now ready.

M. A. HUNT, Terre Haute, Ind.

SOW IT NOW! PRIMROSE SEED.

And buy of the grower; 50 cents per 100 seeds. Grandif, rum, fringed, in all the best colors.

CALCEOLARIA, 50 cts. per trade package.

DEAR SIR:—Your Primroses surpass any we have ever seen. Could have sold more.

J. L. WATKINS & SON, Sandy Hill, N. Y.

DEAR SIR:—The Primroses were all I desired of them.

Mrs. M. L. BARNES, Binghamton, N. Y.

Write for prices of seed in separate packages.

A. J. BINLEY, Glens Falls, N. Y.

TO FLORISTS

Throughout the United States: The subscriber is now closing up his entire nursery and florist business. He has in round numbers 75,000 plants, of which are 18,000 shrubs large and small. Will sell large shrubs \$5.00 to \$10.00 per 100; small \$2.00 per 100. Dracena terminalis, D. Brasilensis, Lantana p. bonica, 18-in. \$2.00 for 10. Gardenia Florida, 6-in. 12. H. FOSTER, Babylon, N. Y.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
53 N. 4th Street,
PHILADELPHIA, PA.

ESTABLISHED 1860.

Floral Wire Designs

Manufactured by
N. STEFFENS,
335 East 21st Street. - NEW YORK.

FINE FERNS.

PTERIS CRETICA ALBO LINEATA,

ONYCHIUM JAPONICUM,

ADIANTUM PUBESCENS,

And other varieties.

JOHN WELSH YOUNG,

FRANK STREET, GERMANTOWN, PA.
Mention American Florist.

SURPLUS STOCK OF FERNS.

600 ADIANTUM CUNEATUM,

strong plants, from 1½ and 2-inch pots, at \$6.00 per 100. Cash with order.

GUST. MALMQUIST.

FAIR OAKS, MINNEAPOLIS, MINN.

MESSRS. PENNOCK BROS., the well known retail florists of Philadelphia, say of

LONG'S FLORAL PHOTOGRAPHS,

under date of March 4th, 1891:

"WE THINK YOUR FLORAL PHOTOGRAPHS ARE THE BEST OF THEIR KIND. WE FIND THEM VERY USEFUL."

Apply for circulars to

Dan'l B. Long,
BUFFALO, N. Y.

CONVENTION SUPPLEMENT

Our Annual Convention Supplement
will be published with the

AUGUST 13 ISSUE.

It will contain a sketch map of the city of Toronto, give locations of Toronto Hotels, with rates at each one, directions to reach points of interest, and other notes of value to visiting members.

ADVERTISEMENTS

for the Supplement should be received by **August 7 at latest**, and as much earlier as possible. **Rates** same as in the body of the paper: 10 cents per agate line; page \$42.00; half page \$21.00; column \$14.00; half column \$7.00; inch \$1.40.

Being mailed with the August 13 issue it will reach members before they start for the Convention, and will be their friend, philosopher and guide on the way to and during the meeting. Extra copies will be distributed at the Convention.

SEND IN YOUR ADVERTISEMENTS EARLY.

AMERICAN FLORIST Co.,

54 La Salle St., CHICAGO.

FOR SALE *

Two nice Steam Radiators, nicely bronzed, with nickel plated fittings complete: no longer needed owing to the use of natural gas. Will sell cheap. Write for particulars.

E. G. HILL & CO.

RICHMOND, INDIANA.

....OUR....

HALF-TONE *

* ENGRAVINGS

... ARE MADE BY ...

J. MANZ & CO., Engravers,

107 Madison Street, CHICAGO, ILL.

Their work in this journal speaks for itself.
Publishers AMERICAN FLORIST.

3,000,000 HARDY CUT FERNS

**MOSS, Sphagnum and Green Sheet,
BOUQUET GREEN & FESTOONING**

of all kinds always on hand. In fact
anything that grows wild.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.



FANCY. DAGGER.
per barrel: 6 barrels, \$5.00. 20 barrels, \$15.00.

L. B. BRAGUE, Hinsdale, Mass.

NEW CROP EVERGREEN CUT FERNS NOW READY.

Special attention paid to supplying the wholesale trade.
Single thousand, \$1.35; in lots of five thousand
and upwards, C. O. D., \$1.00 per thousand.

SPHAGNUM MOSS. Long, clean fibre, hand sort-
ed, DRY or GREEN, \$1.00
BOUQUET EVERGREENS, E.00 per barrel.



SCOLLAY'S IMPROVED PUTTY BULB,

For Glazing Sash, Etc.

Patent Plant Sprinkler

For sale by your Seedsman,
or sent, postpaid, for \$1.00.

JOHN A. SCOLLAY,

74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.

Send Stamp for Catalogue.

Mention American Florist.



Ventilator Machinery

FOR ALL CLASSES OF GREENHOUSES
EITHER FOR TOP OR SIDES.

Awarded the only Certificate of Merit
at Buffalo Convention.
Patented Dec. 10, 1889.

Write for Catalogue before order-
ing elsewhere.

E. HIPPARD,
YOUNGSTOWN, O.

Mention American Florist.

THE AMERICAN FLORIST Co.'S

TRADE

DIRECTORY

OF { **FLORISTS,
NURSERYMEN,
SEEDSMEN,**

OF THE

UNITED STATES AND CANADA,

1890.

No one in the Trade can afford to be
without it.

PRICE, \$2.00.

ADDRESS:

AMERICAN FLORIST Co.

54 La Salle Street, CHICAGO.

For Boy Graduates.

No doubt other florists have, like myself, been in a quandary for something suitable for the boy graduates. For the girls we can always find something pretty: graceful long-handled baskets, or loose bunches tied with ribbon. But neither of them is just the thing for boys. This year I had some handsome leather book-covers made, with the class motto stamped in gold on the side, and "Congratulations, Vol. '91" on the back. These I filled by dropping the stems of the flowers between the covers, so that the blossoms protruded in careless, graceful profusion, and tied the covers together with ribbons that matched the flowers. They were pretty and appropriate, and while is better for the florist, sold well, and cost no more than fancy baskets.

Duluth, Minn. L. S. SWANSON.

Is He a Professional?

To give my opinion in regard to the article, "Is He a Professional?" I would term this class either semi-practicing, or income assisting florists, as in my own case.

I am a paper box maker by trade and have been working at home for the past ten years making paper cases for confections and table decorations, but for the last two years my earnings have been so declining that they are not enough now to support wife and child. I have always been raising plants for our garden and little conservatory. Last winter we had so many flowers that some people were inquiring whether we had them for sale. Now we have come to the conclusion to try it as a business, in order to have an extra income. We are getting a greenhouse built now; will stock it with one kind of plant, and commence to sell cut flowers next winter. If it should prove a success to warrant an extension of the business, I might turn a professional florist then. T. L.

The Mealy Bug.

Is there any reliable remedy for the pest known as the mealy bug in the greenhouses? All applications seem to be nearly worthless except hand picking. We have tried all the advertised mixtures and are disgusted. How will the gas from cyanide potassium and sulphuric acid work in them, and can it be safely used by letting it have possession of the house over night and thoroughly ventilating the house the next morning? Would it be dangerous for the gardener to go into the house to ventilate it the next morning? I am fully aware of the deadly effect. I have used the cyanide jar to kill my specimens for the past three years.—H. L. Jeffrey, Woodbury, Conn., Nov. 27, 1890.

Reply.—Hydrocyanic acid gas, produced in the way which you mention, is being extensively used on the Pacific coast as a remedy against scale insects. Entire orange trees are covered with tents, and the acid is manufactured under the tent. I am not aware, however, that it has been tried in greenhouses on the scale which you suggest, but am inclined to think that there would be some danger in its use in this manner.—*Insect Life.*

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

EXCELSIOR STANDARD FLOWER POTS,



With Patent Ventilated and Perfect Drainage Bottom.
We beg leave to call your attention to our CARD. EXCELSIOR STANDARD POTS. You cannot well afford to be without them, as they are especially adapted for growing Chrysanthemums and all valuable plants.



FIRST CLASS CERTIFICATE OF MERIT
AWARDED WHEREVER SHOWN.

We still carry in stock a full line of the regular "STANDARD" POTS.

When writing for price list state sizes and quantity wanted.

Price List sent on application to

THE WHILLIN POTTERY CO., 713 & 715, Philadelphia, Pa.
WHARTON STREET,

STANDARD FLOWER POTS

—AND—

JARDINIERES IN GREAT VARIETY.



NOTE.—Our new Catalogue for the Fall of 1891, containing illustrations of New Jardinieres especially adapted for Standard Pots is now ready and will be sent on application.

A. H. HEWS & CO., CAMBRIDGE, MASS.
Mention American Florist.

AHEAD OF EVERYTHING.

We Follow None, Prize or No Prize.

Our latest improvements in machinery produce a Standard Pot which for lightness, smoothness and durability, has never been equalled. Customers buying of us will

SAVE ONE-THIRD IN FREIGHT.

And to prove this, we give below a table showing number in Crate and WEIGHT of same, which speaks for itself:

Size.	No. in Crate.	Weight.
1 1/2 inch.....	3,000	350 lbs.
2 ".....	2,400	250 "
2 1/2 ".....	1,750	250 "
3 ".....	1,450	250 "
3 1/2 ".....	1,250	350 "
4 ".....	800	350 "
4 1/2 ".....	600	350 "

It will be seen at a glance, that our pots are one-third lighter than formerly, and yet we claim that owing to the superior quality of our clay and improved machinery, they are stronger than any pot in the market, and we frankly ask you to make the test. **SEND FOR PRICES.**

SIPPLE, DOPPEL & CO., Syracuse, N. Y.

REDUCTION

SINCE FEB. 1st,

33 1-3 per cent. Discount off List
on all orders for full thousands of our

Neponset Flower Pots,
OF WATERPROOF PAPER.

Address for all information,

OUR WHOLESALE AGENTS,

AUGUST ROLKER & SONS, - New York.
R. & J. FARQUHAR & CO., Boston, Mass.
who furnish samples by mail, postpaid, on receipt of
For one dozen 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 10 1/2 11 11 1/2 12 12 1/2 13 13 1/2 14 14 1/2 15 15 1/2 16 16 1/2 17 17 1/2 18 18 1/2 19 19 1/2 20 20 1/2 21 21 1/2 22 22 1/2 23 23 1/2 24 24 1/2 25 25 1/2 26 26 1/2 27 27 1/2 28 28 1/2 29 29 1/2 30 30 1/2 31 31 1/2 32 32 1/2 33 33 1/2 34 34 1/2 35 35 1/2 36 36 1/2 37 37 1/2 38 38 1/2 39 39 1/2 40 40 1/2 41 41 1/2 42 42 1/2 43 43 1/2 44 44 1/2 45 45 1/2 46 46 1/2 47 47 1/2 48 48 1/2 49 49 1/2 50 50 1/2 51 51 1/2 52 52 1/2 53 53 1/2 54 54 1/2 55 55 1/2 56 56 1/2 57 57 1/2 58 58 1/2 59 59 1/2 60 60 1/2 61 61 1/2 62 62 1/2 63 63 1/2 64 64 1/2 65 65 1/2 66 66 1/2 67 67 1/2 68 68 1/2 69 69 1/2 70 70 1/2 71 71 1/2 72 72 1/2 73 73 1/2 74 74 1/2 75 75 1/2 76 76 1/2 77 77 1/2 78 78 1/2 79 79 1/2 80 80 1/2 81 81 1/2 82 82 1/2 83 83 1/2 84 84 1/2 85 85 1/2 86 86 1/2 87 87 1/2 88 88 1/2 89 89 1/2 90 90 1/2 91 91 1/2 92 92 1/2 93 93 1/2 94 94 1/2 95 95 1/2 96 96 1/2 97 97 1/2 98 98 1/2 99 99 1/2 100 100 1/2 101 101 1/2 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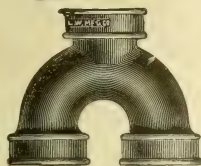
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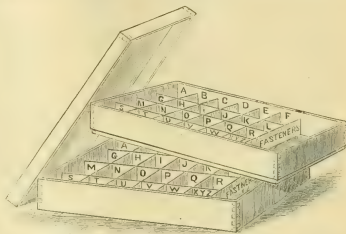
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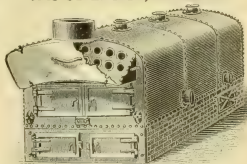
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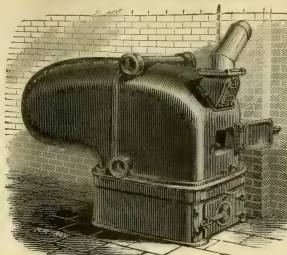
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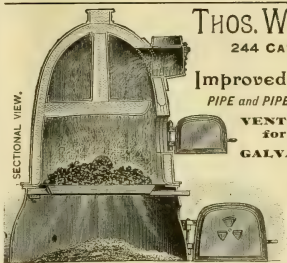
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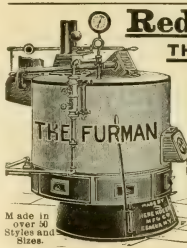
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TORONTO, ONTARIO,

AUGUST 18, 19 AND 20, 1891.

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Summer Flowers Suitable for Cutting.

BY G. C. WATSON.

[Read before the Florists' Club of Philadelphia at the July meeting.]

The kinds of flowers which the florist wants from May to October are those which are lasting when cut and have good long stems for cutting. They must be showy and free-flowering, as well as graceful and refined in form. They must also be of easy culture, such as will grow in ordinary soil in an ordinary border without any special cultivation. There are flowers innumerable which are useful for decorative work in the summer garden, but which are entirely unsuited for cutting. Many of the most beautiful are so fragile that they wither up almost as soon as cut; many more have such short stems, or the flowers are so crowded into dense heads that they can neither be readily utilized in bouquets nor put in vases. Keeping the prime requisites of a first-class flower for cutting before us and running all the varieties we can think of in review, it will not be long before we realize how few are the real gems that we can point out as possessing every necessary characteristic, and it is, therefore, not surprising that we should be earnestly on the outlook for useful subjects suitable for summer cutting. In the list which follows all flowers which cannot be advantageously used for cutting have been rigidly excluded and shrubs and trees have not been mentioned because, although some of these are useful, they do not come within the scope of the present inquiry, which is confined to herbaceous plants and such annuals and other flowers as may easily be raised in an ordinary garden.

The list commences with a well-known flower greatly appreciated in many sections for cutting, but which is not so largely grown in this neighborhood as it ought to be, namely, the *Achillea ptarmica* fl. pl., or double white yarrow. It flowers all through the summer and produces its perfectly double pure white flowers in the greatest profusion—a very fine perennial and of the easiest cultivation. Another fine variety of this family, *Achillea millefolium roseum*, is worthy of recommendation. It flowers freely for several months. The *Anemone* family is an extensive genus and many of them are useful to the florist for various purposes, but the variety which is the most valuable in the present connection is *Anemone* to November, and it is, moreover, one of the very finest of the fall flowering perennials we possess. Perfectly hardy and so robust that the flowers even will bear considerable frost with impunity. This splendid perennial cannot be too highly recommended. Another excellent perennial is the *Aquilegia chrysantha*, which produces its beautiful primrose-yellow

flowers quite frequently. Almost all of us recognize the value of asters for cutting. We cannot have too many of them. And if I may be permitted to make a suggestion, they ought to be used more in succession than is at present practiced. Mr. Zirnigebel commences marketing his asters in the middle of June from seeds sown the previous December, and the prices they bring at that season will repay him for the extra attention inculture. By successive sowings asters may be had in flower all summer from June to October, the latest sowings, about the middle of May, being sown in the open ground. The most popular sorts, by long odds, are the improved *Victoria* strain and the improved *Paony* flowered. The colors most useful are white, pink, scarlet and blue, in the order named. Perennial asters (*Asters* proper, or *Michaelmas* daisies) are not much grown, but there are several of them that make good subjects for cutting. For instance, *Aster alpinus*, both the blue and the white forms of this have fine dwarf habit and good, long stems. *Aster altaicus*, light blue; *Aster bessarubicus*, deep blue; *Aster dracunculoides*, white, and *Astericoides*, white, may also be mentioned.

Double balsams, although lacking one of the characteristics of the perfect cutting flower, are yet so valuable that they are largely grown for floral work. When well grown and a good strain they are exceedingly valuable for summer and autumn blooming. The *Camellia* flowered section is the most popular, good flowers being as double as a *Camellia*, and often almost as perfect in petal arrangement. The *Browallias*, both the white and the blue, are well worth growing. They give very neat sprays of flowers, which are very useful in bouquets, and they are also very useful for winter and spring flowers. There are several of the large family of *Campanulas* that are good cutting flowers, one especially being worthy of mention, namely, the *White Carpathian Bell-flower*, a beautiful and most graceful perennial, flowering from June to August. "Marguerite carnations," a distinct new race, with double flowers and in various colors, are a valuable addition to our list of summer subjects for cutting. They are somewhat after the style of the "Grenadin" carnations, which are very popular and still growing to a considerable extent. The "Marguerite" form is exceedingly early flowering, commencing to bloom in August from April-sown seed. "Sweet Williams" and "China pinks" are invaluable, the single form of the former and double form of the latter in many colors. A special word of praise must be given to the *Heddeewigi* section of the *China pinks*, especially the double forms. They are exceedingly neat, and bear large flowers of brilliant colors. The old-fashioned "garden pinks" (*Dianthus plumarius*) are also good and very hardy.

Catananche cœrulea and C. lutea are excellent annuals for cutting, very pretty and free flowering, and with fine, long stems. The Centaurea cyanus, or corn flower "blue", as the blue variety is sometimes called, is among the best of our summer flowers. The colors range from white to deep rose, and are quite popular. Mr. Battles informed me that the "blue" is the popular flower this summer. The name "blue" is also applied to the Houstonia cœrulea, an elegant little perennial with light blue flowers on stems about four inches in length. Flowers early in summer and may be propagated by divisions of the root in autumn or by seeds. It cannot rank very high as a cut flower however on account of its small size. The yellow centaurea, C. suaveolens, was very popular around Boston a year or so ago, and may be so yet. It is an excellent annual, very fragrant and free flowering, and of fine, graceful form. The annual chrysanthemum, many of them are quite useful. The following are among the best: C. carinatum and its varieties. The flowers are single, and some of them distinctly and beautifully marked. Lord Beaconsfield is one of the prettiest. A double form of this, in various colors, hails from England, and is said to be very fine, but I have heard no report as yet from those who are trying it here. C. coronatum, double yellow and white; C. frutescens, single yellow and white (or Paris daisies, as they are commonly called); C. leucanthemum, or ox-eye daisy, single white, and C. segetum grandiflorum, single yellow. All these are good, and are grown more or less. Among the coreopsis the lanceolata, a perennial, is the most popular, but there are several others that are worthy of more attention than they are now receiving, for instance, verticillata, grandiflora, cardinaliflora, tinctoria. Cosmos—a Mexican annual—a greatly improved form of bipinnatus, has been grown for two or three years past, and is now very popular for cutting. Its graceful, clean cut flowers are charming for vases, etc. They resemble the single dahlia, but are far more slender and beautiful. Easily raised from seed. Cuttings struck in August make fine dwarf plants for removing indoors in November, and will flower for quite a while. Smith's "White Pearl" is a beautiful new sort, of the purest white, very refined in form and a free flowerer. The other colors of the improved American hybrids are rose, salmon, and purple. These hybrids, by selection and good culture, have already been brought to a high state of perfection and are still susceptible of further improvement in the way of color and otherwise. Cladifolia dahlia, more especially the improved single forms of the latter, are very useful for cutting. Among the delphiniums the following are most popular: D. cardinalis, scarlet; D. formosum, deep blue; D. grandiflorum, various colors, and D. nudicaule, red and yellow. Besides these, there are numerous very handsome hybrids, which deserve to be much better known. The annual varieties, or larkspurs, are also showy and useful, and are very easily raised from seed.

Euphorbia corollata; there are few plants so valuable for cutting as this. It is a gem, covered all summer with pure white flowers. Perfectly hardy and, once established, continues to flower year after year, furnishing an endless supply of flowers for bouquets, etc. A perennial, propagated by root division. Gaillardia Lorenziana has fine heads of crimson and yellow flowers, and is most excellent for

cutting. It is an annual and usually raised from seed, yet it is claimed that plants from cuttings are much superior. I saw Galega albiflora grown as a pot plant last summer. It has beautiful racemes of pure white pea-shaped flowers, and ought to make a good outdoor subject for cutting. Iberis coronaria, the "Rocket Candytuft," is largely grown for cutting. There are several improved forms, among the best being "Giant Snowflake," "Zirngiebel's Giant," and "Dobber's Spiral." The Iberis sempervirens, or "Evergreen Candytuft," is a splendid sort. It is a perennial, flowering in spring and summer. The flowers are pure white, produced in long racemes. One of the finest perennials in cultivation and should be grown by all who need white flowers in spring or summer.

The Gypsophila paniculata, or "baby's breath," has been recommended for mixing in bouquets. It is charming in a bunch of pink sweet peas, its small white flowers giving an airy grace to the larger blossoms that is very effective. There is another plant, called Isopyrum thalicroides, with flowers very much resembling the gypsophila, but with the added charm of beautiful foliage, resembling that of the "maidenhair fern." Both may be propagated by division or seeds. In sweet peas the three most popular colors are pink, white and scarlet, in the order named. The variety known as "painted lady" is a good pink, and there are two or three other pinks advertised, which are said to be improvements. Blanche Ferry is the only one of these I have seen, and is very good. Nellie Janes, and also a form advertised by a Boston grower, I have not seen, but they are highly spoken of. Invincible scarlet and cardinalis are good scarlets. The ordinary white is the only one of this color, in the opinion of Mrs. Sankey, one of Mr. Eckford's offered last season, which is an improvement in size and of fine form. It is so expensive, however, that very few could have a chance of doing anything with it. 25 cents for 25 seeds of sweet peas is rather rich for us, fond as we are of expensive luxuries. There was another of Mr. Eckford's novelties the year before, called "Queen of England." It did not differ from Mrs. Sankey's as far as I can make out—same color, and same form, and same price. There are a great many other colors useful for variety, but the three first named are the standard sorts. A good yellow would be an acquisition. The variety called Orange Prince is not yellow, but a pinkish orange.

Leptosyne maritima resembles a single dahlia and is closely allied to that genus. The flowers are yellow, about three inches in diameter, the disk occupying one-third. Not so elegant as C. lanceolata, yet a good useful plant for cutting. Perennial, but easily raised from seed. Blooms the first year. Lupinus Cruckshanksii, L. polyphyllus, L. nanus and L. nortkatisensis are among the most ornamental of summer flowering plants, and are of such easy cultivation that it is a wonder they are not more largely grown. There are numerous beautiful sorts in the lupin family besides those mentioned that are worthy of a place. Double white matricaria is a good deal grown in some places and it is a very pretty white flower, very free blooming and of the easiest cultivation.

A small growing single sunflower (Helianthus cucumerifolius) is excellent, and has been grown quite extensively for several years. It is easily raised from seeds, and should be in all collections. Helianthus multiflorus fl. pl. is the best of all the

double sunflowers for cutting. It is a perennial. Perfectly hardy, and one of the finest and showiest perennials in cultivation. Ornithogalum arabicum is a very showy, bulbous perennial, most excellent for cutting. It does not flower quite so freely grown out of doors as when treated as a pot plant for winter flowering. O. nutans and O. pyramidalis are good varieties, both white. Speaking of these reminds me to mention the summer flowering hyacinth (Galtonia candicans), another bulbous rooted perennial with long spikes of beautiful pure white flowers. A prominent grower recommends the herbaceous peonies, and for some purposes these are doubtless excellent. They are certainly extremely showy, and as they flower in May and June, at a time when there is a dearth of good cutting flowers, they will come in handy. They are fragrant and good shippers, too—two important points. Peonies can be forced in winter. Why wouldn't they make good Easter subjects? P. tenuifolia, for instance, would be a handsome thing if well grown specimens could be produced at that time. Everybody likes pansies, and I regret they can not be classed among "summer flowers for cutting." They are good for spring and fall, however.

There is also a fatal objection to most of the poppy family—the flowers are not lasting. P. alpinum and P. nudicaule stand up pretty well, however, and should be given a place. Amongst popular perennials the pentstemon holds a very important place, and in addition to their decorative qualities they are most excellent for cutting and must be given a prominent position for this purpose. There are quite a wealth of varieties to make a selection from, and the following are recommended especially, P. barbatus and P. b. Hartwegii, P. Hartwegii, P. monardii and P. venustus. These are all distinct species, and there is also a race of garden hybrids, a selection of which should be in every collection. Phlox decussata in its various colors is a useful perennial and well worth cultivating.

One of Mr. Thorpe's pets is the Giant Ox-eye Daisy (Pyrrethrum uliginosum), a handsome perennial, with white flowers, two inches in diameter, borne on graceful, bending stems. Quite a free flowerer and very showy plant for the border, outside of its great utility for cutting. Mention has been made of the Helianthus cucumerifolius and there is another class of plants, the rudbeckias, that resemble this sunflower rather closely and are too good to be omitted from our list. The best sorts are R. grandiflora, R. maxima and R. speciosa, all of them excellent for cutting—and very useful in the garden.

There are quite a few more good flowers for cutting that are worthy of extended comment, but which must be passed with a mere enumeration. For instance, zinnias, great favorites with some; scarlet sage, sweet rocket, marigold, mignonette, alysium, senecio, montbretias, tritomas, fair maids of France, mourning bride, gaura, schizopetalon, valerians, sternbergias, Swan river daisies, baptisia, cœcilia, Cynoglossum cœlestium, venedium, tropæolum, etc. The list might be extended considerably, but I think any florist who grows all of those mentioned will be able to cut good flowers almost every day from May to October.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.



SPECIMEN HYDRANGEA

Specimen Hydrangea.

The illustration shows one of the 26 hydrangeas, half of which were shown by Mr. Julius Roehrs and half by Mr. James Dean at the exhibition of the New York Florists' Club.

The plant shown was in a 10-inch pot and measured three feet across the top, and 28 inches from the ground to the top of the highest head of bloom. Each flowerhead would average ten inches across. Every plant was a masterpiece.

JOHN THORPE.

The Flower Garden.

BY J. A. PETTIGREW.

[Read before the Horticultural Society of Chicago July 11.]

Lovers of the beautiful and natural in gardening will note with pleasure the obvious tendency of thought and effort toward a restoration of the old-fashioned style of gardening. The old-fashioned flowers of bygone days, so dear to the memories of most of us and so replete with old associations, are being brought from the garden of the cottager, where they have been content to hide and bide their time. Many of their almost forgotten faces are now again to be seen, seemingly to us all the sweeter for their long and undeserved banishment.

The object of this paper is the encouragement of this tendency in the direction of natural gardening, and the endeavor to curb within reasonable limits the mad race after floral and artificial effects as depicted in the "bedding out" of the modern flower garden.

This artificial style has now long prevailed almost to the utter exclusion of

any other form of decorative gardening. The sweetness, beauty and variety of the old-fashioned garden borders succumbed to glaring masses of color or to intricate designs of geometrical or carpet work. Nowhere could be found the old quiet nook where familiar floral pets could be watched and waited for. A gardener's proficiency was too often measured by his ability to design monstrosities in floral decorations, while skill with the sheep shears has ranked as knowledge of the culture of plants. The reason for this would be hard to find. It certainly was not on the score of beauty, appropriateness or good taste. The painter selects his floral subject not from the geometrical garden or the flaming parterre; he prefers the more natural beauty of the woods and fields or the sequestered garden corner. Why then should we, who demand nature in art, tolerate art in nature?

The old-fashioned flower garden commands itself for the opportunity it presents for the cultivation of a great variety of plants and in its long continued season of bloom; from the first peeping of the snowdrop through the snow until the last Christmas rose is gathered, what an endless array of beautiful forms greet us from day to day and from month to month. Such variety and long-lived beauty is not obtainable in the parterre or ribbon border where scarcely more than a dozen species of plants enter into the most elaborate display, and where the season is limited at most to three months of summer.

As an educator the old-fashioned garden further commends itself to us; among its borders teeming with such variety, a comprehensive knowledge of plants can be

acquired. A part may be devoted to experimental work, such as testing the hardiness and conditions necessary for growth of trees, shrubs and plants that may be new or of recent introduction. Such a pursuit is fascinating and tends greatly to strengthen the love for plants, apart from the value of the information obtained. Nothing need be banished from the garden but pestilent weeds. Each expedition to the woods or hills may be the means of adding some member of the floral family to its fold.

The culture of old-fashioned garden plants is a pleasure that can be enjoyed by anyone possessing a garden spot. No expensive glass houses are needed for winter protection. The hardy class once planted with care will increase and at each division and replanting sufficient spare stock will be found for exchanges. A frost proof cellar will suffice to protect many plants of exotic extraction when of tuberous or bulbous form of growth. Other and many beautiful tender plants can be produced from seed in the open border with little expense and some trouble. Love, however, lightens the labor of those who follow the pursuit of gardening for the pleasure to be found therein.

The aquatic garden comes within the scope and design of the natural and is one of the most interesting and fascinating forms of gardening, as well as one of the most beautiful. Water adds a charm to any landscape, and the charm is intensified when its surface is studded with the blooms of the *Nymphaea* or *lotus* embossed in their rich green and luxuriant foliage. Many and varied are the forms of aquatic growth that are available by their grace or beauty for the embellishment of the aquatic garden, and all are beautiful.

The aquatic garden, to bring out its full beauty, should, like a jewel, have a proper setting; one should enhance the charm of the other. Such a setting may be of the character of the wild garden. The sheet of water need not be so large as to make recognition of the plants in the center difficult. The edges of the pond or lakelet may be irregular in outline and elevation, with here and there a rock or root protruding through the surface, and surrounding it may be an undulating, or, if circumstances favor, a broken piece of ground, with a background of trees or a rocky cliff. The ground may be partly rock covered; other parts may be of grassy sward; again, another spot may be covered with shrubs and herbaceous plants, all carefully planted and of native kind, as are the parts for hidden rocks and the vine-covered stumps and roots. The tasty and skillful gardener will be able to carefully nurture and train the plants in such a spot without betraying any evidence of his work, so that while all the advantages of culture are enjoyed by the plants, the natural wild beauty of the picture is not destroyed.

It scarcely comes within the scope of this paper, nor is it possible to formulate any general rules for the establishment of a flower garden, so many and varied may be the existing conditions; soil, aspect, topography and surroundings, all have to be studied. A blending of the component parts of the scene has to be accomplished without permitting any incongruity to enter into the arrangement. However, it may be said generally that an old-fashioned garden should have a background of trees and shrubs, the line of which should be curved or broken. The line of the border should harmonize with

the foliage line and the foreground should be of turf, well kept. Beautiful effects may be produced under the trees and shrubbery by planting bulbs for spring flowering, such as crocus, narcissus, hyacinths and snowdrops, together with ferns and cypripediums and wild phloxes, hepaticas and trilliums, too, should not be overlooked for early spring flowers. Many others do equally well in partial shade, and will amply repay the labor bestowed.

The border arrangement should be with the tall plants next to the shrubs at the back, down to the dwarf in front, yet planted with such designs as to produce, as nearly as possible, the impression of spontaneous growth. Avoid formality. Plant species or varieties in clumps of size to show the plants in their individuality, and not dotted and repeated frequently throughout the border.

It is not necessary to enumerate the plants to produce a succession of bloom. The list to choose from is rich and varied. Suffice it to say that commencing with snowdrop, narcissus and hyacinth bulbs in spring until the last Michaelmas daisy or anemone or gentian is gone, a constant kaleidoscopic succession of rich and beautiful effects may be produced, ever varying and changing as the months roll by.

Much more might be written on the subject, but it is hoped enough has been said to stimulate or strengthen a little the desire to be natural in gardening.



Seasonable Notes.

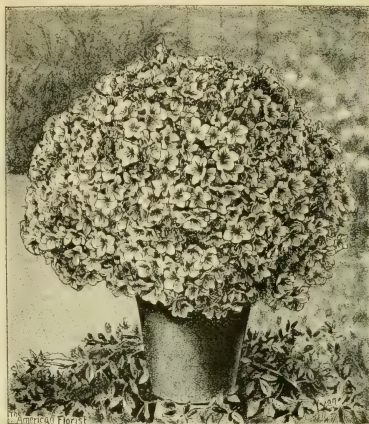
The season has now arrived when the planting for next season's produce should be attended to. Before doing so there are a few items which should be carefully considered. The first is, what varieties are most in demand in each respective locality, and can they be successfully grown with profit? If so the growers should confine themselves almost exclusively to such. But in some cases the special varieties most in demand will not succeed as well as others; in all such cases it is better to select varieties as nearly resembling them as possible and which will grow and flower good in soil at command, always providing that they can dispose of them profitably. This is a very important item with all growers and where a correct account is regularly kept of all the varieties grown (which should always be done by everyone) it will be a very easy matter to decide which are the most desirable varieties to grow and what not to grow. Another consideration is rather important. That is, if your soil is not suitable to grow the varieties most in demand, will it pay you to procure soil from some other point that they will grow in? Oftentimes the addition of a little clay to a light soil will make considerable difference to the produce, or if the soil is very heavy the addition of a portion of lighter soil will be very beneficial. But this matter can only be determined by each grower testing it for himself.

It may be and often is very desirable to try some of the newer and improved vari-

eties, as it often happens that they prove very desirable acquisitions to those already in stock. By this I do not advise buying indiscriminately all that is offered as new and wonderful, but select such as you think will suit your purpose and try enough of them to get a dozen or twenty buds at a time, then by showing them to customers it will soon be found whether they will take or not. No lady can judge of the quality or desirable coloring in any flower with only two or three blooms to examine, but give them 15 or 20 nice blooms and the effect is altogether different.

Many, very many times the real artistic merit of a choice rose is destroyed by being placed with others with which it will not harmonize, more particularly if three or more colors are placed together. The matter of blending or harmonizing colors in flowers is a matter with which very few of us growers are really conversant and is a subject which Mr. Battles and others can still give us many good points upon. I have read the articles in the *FLORIST* upon colors with much interest and hope to see some further light thrown on this subject.

But to get back to the subject of growing roses. After having made a careful selection of the varieties most suitable to the respective requirements, lose no time in getting ready to replant. However, before doing so it is very desirable to thoroughly clean out the old stock, then clean and sweep out every particle of rubbish both from the benches and floor underneath, next give all the boards (not painted) inside the house a good coat of hot lime wash. This acts as a good preservative of the boards from rot and destroys any insect life that may be adhering to the boards, besides giving the house a much cleaner and brighter look, and in the dull days in winter it will make the house considerably lighter; which will be found a great advantage to the plants. This done get the soil in as soon as possible and prepare to plant your roses.



AZALEA—ILLUSTRATION NO. 1

For the last three or four years we have not used more than from 2½ to 3½ inches of soil in any of our benches and find it an abundance for all purposes, but the soil used should always be fresh or new soil in which no roses have been grown for several years. That from an old pasture free from trees, is always the best, but where this cannot be had then get the best fresh soil at command. Mix with a portion of manure according to what the soil requires. If it is of fairly good quality one part thoroughly well rotted cow or sheep manure to eight of soil is plenty; turn this over two or three times to thoroughly mix it, then it will be ready to put on the benches.

The next thing is to plant them; in doing this we have found that most of the leading varieties of teas do well planted at from 14 to 15 inches apart from plant to plant; this of course will somewhat depend on the variety and strength of plants; this last item is of more importance than many think; really good strong plants will pay in one season nearly double what poor weak plants will and it is certainly a good investment to have the former when replanting a house. Some think the young stock can be grown on (for the coming season's supply) among the plants which have already filled the house, the result of which is often total failure.

JOHN N. MAY.

Azaleas.

Illustration No. 1 shows a round headed specimen 3 feet in diameter and 3 feet 6 inches high. It was exhibited by Mr. Jas. Dean at the New York spring show. It had no less than a thousand and ten flowers open at the same time, solid red in color, and most effective.

Illustration No. 2 shows an entirely different shaped plant, exhibited by Mr. R. Brett. It was cone-shaped, 4 feet high and 2 feet 6 inches through at the base. A fine specimen, white splashed with pink.



AZALEA—ILLUSTRATION NO. 2.

A great deal of comment was made upon the distinct style of training. Mr. Dean's plant was as trim as shears could make it. Mr. Brett's was loose and more naturally grown. The aesthetes went for Brett, the economics went for Dean. This reminds me of the great azalea contests held in England between Messrs. Veitch and Turner during 1862 to '66. Their giant pyramid plants were 8 feet high and 6 to 7 feet at the base. One year they were as closely cropped and tied as Mr. Dean's plant, then the next year a little more relaxed, yet a little more the next and ultimately a general flowing outline ruled. And my! How handsome they were! Life is worth living 50 years to have seen those masterpieces of culture and skill.

We should have such azaleas at the World's Fair. We must have some good azaleas, if not equal to these I have described.

JOHN TIMPKE.

Long Island Notes.

BY WM. FALCONER.

ASPARAGUS PLUMOSUS is figured in the *Gardeners' Chronicle* June 20th, and we are informed that the proper name of it is *A. decumbens*.

WHITE YUCCAS AND SCARLET CANNAS.—A bank of *Yucca filamentosa* in full bloom with a broad belt of scarlet flowering dwarf cannas beside it is a very striking sight, and one I had not thought of when I planted the cannas. It was a happy accident.

MAGNOLIA GRANDIFLORA VAR. EXON-

SENSIS is a garden form that was raised in England a good many years ago; its chief characteristics are hardness, copiousness, and the property of blooming when the plants are quite small. And this is why for a month past we have been enjoying some of the finest magnolia flowers I have ever seen.

MARIE LEMONE is the earliest of all our gladioluses, reckoning from the date of planting till blooming.

SOME YEARS AGO our lilies (*Lilium*) took the disease, and many of them perished. To save the balance I lifted them and planted them in fresh ground. *L. Krameri*, *L. Leichtlinii*, *L. testaceum*, *L. tenuifolium*, *L. candidum*, *L. longiflorum*, and a few others failed to recover; but *L. Thunbergii* and *L. speciosum* in variety have recuperated splendidly. *L. Batemanii* completely, and so, too, has *L. Browni*. And strange to say, *L. Hansonii* has never had the disease.

CRAB GRASS.—The only way to kill it out in sod is to pasture the land close; after a couple of years of bare pasturing, sods from such land will be a pleasure to lay.

ANTHEMIS CORONARIA FL. PL., raised from cuttings last spring and planted out in rich, porous soil in May have bloomed splendidly, and they have grown well, broad and bushy. But the great trouble with this plant in summer is that a plant every here and there keeps failing, rendering the mass quite patchy. The leaf miners were very hard on the stock plants last spring.

THE FINE FORMS OF THE Paris daisy (*Chrysanthemum fruticosum*) make capital bedding plants. The plants are all of equal size, and smothered in white daisies.

CANTERBURY BELLS.—Don't forget to sow some for next spring. Now is the time to put in the seed. The *calcanthemum* strain is the best.

CANNA MME. CROZY is behaving herself splendidly. She is growing well, blooming well, and what is surprising to me, seeding well. Four feet high, very stocky and vigorous, with a strong branched flower spike from every shoot, and very large, full, scarlet blossoms, distinctly banded with gold. She is a gorgeous flower.

WHY DON'T CANNA seed all germinate? Because you don't file a tiny hole in their side before you sow them, somebody may answer. Maybe so; anyway, don't blame the seed for that which we ourselves save is just as refractory as what we buy in the store.

WILL CANNAS bloom the first year from seed? someone may ask. Let me answer, of course they will and indeed they won't. Seedlings of *Canna Louis Chretien*, from a sowing made last February, have been in bloom with me for a month, others of the same sowing are not yet in bloom, and lots of the seeds haven't come up yet.

I SOWED GLADIOLI seed out of doors in May, and it hasn't germinated yet, but this is owing to the dry weather, for of the same seed sown the same day in a shaded cold frame a full crop of seedlings are up and doing well.

MIGNONETTE.—I'm sick and tired of growing everything in the way of new varieties that comes out. My experience this year is as it was last, that *Machet* is the finest mignonette that I have got and *Golden Queen* (for summer work) is next. *Machet* is as fragrant, too, as any of them. But why is it so dear? With me it sets and holds its seed well, and we can gather quite as much seed and as easy from it as from any of the other kinds.

IF YOU HAVE any plants in pots plunged out of doors, be sure you give the pot a twist around or a lift, and set back again every week or two to prevent any free rooting through the bottom of the pot into the ground, and serious check later on.

IF YOU GROW *FIERESIAS* you probably have got a great many large bulbs and a good many small ones, and now they all are at rest. Well, you can do most anything you please with your big bulbs. You can get them into bloom early or late or intermediate, just as you choose. But have a little consideration for the small bulbs. Put or box them off at once, and let them start to grow as soon as they like; the longer growing season they have the bigger will the bulbs grow, and you can better afford to encourage them now than give them house room towards spring.

Committee on Pronunciation Wanted.

Now that we have a nomenclature committee, why may not we also have a committee on pronunciation?

For a starter I would like such a committee to give me the correct pronunciation of *clématis*, *gladiolus*, *pelargonium*, and *Niphetos*.

After these have been passed upon I have a lot more to submit. M.

ALWAYS mention THE AMERICAN FLORIST when writing to advertisers.

For Toronto.

Mr. Ewing justly says I can tell the American florists something about Toronto. Here it is:

Previous to going to Buffalo I thought of annexing Canada, especially Toronto, because I had heard of Chambers, of Foster, of Vair, of Saunders, of Mantons, of Joe Rogers, of the Cottrells, the Summers, the Steeles, and the Flemings, and wondered why they were living in that cold, neglected, forsaken country.

When I arrived at Buffalo Mcpest said, "You'll like Toronto;" Dan Long said, "You will see a beautiful city;" John Covell said, "Be sure you see Saunders and George Vair; if you do you will have a pleasant week's visit;" Great Scott said, "John, first of all, when you get to Toronto, register at the Queen's Hotel and then ring for John Chambers," which I did, "then," says he, "hunt up George Vair and Saunders and Johnny Dunlop and Ewing and Heuston and Tommy Manton. Then ask them to give you the names of the best establishments to visit," which I did. So I "arrive," and was amazed at the substantiality, at the repose, and the sterling appearance of the buildings, the streets, and the people.

It occurred to me momentarily that I had better go slow on that annexation business. It looks as if the boot was on the other leg. So I never said a word, but about the third day Chambers said to me, "How about annexation?" I replied, " rodents" (from Europe).

Toronto is one of the most beautiful cities on this continent; the people are the most hospitable in the world; the accommodations for visitors are not surpassed by any city in America; the cost of living is fully 20 per cent less than in any place I have yet visited.

Toronto was and is a revelation to me, and I desire every florist on everybody connected with our business to visit Toronto at the convention. All those who do so will afterwards thank me for the few words I have said about it.

TORONTO AND HER ATTRACTIONS.

High Park, Island Park, Reservoir Park, Toronto Bay, Exhibition Park. High Park is yet unfinished, but there are some of the finest trees and natural scenery it has been my lot to look on—about 400 acres. Island Park is an island out in the bay, of some sixty acres, stolen from the waters by John Chambers. A superb breathing place. John ought to have a monument on the landing, a good, substantial bronze one. The children of Toronto will subscribe 5 cents apiece a month for a year for the base, I am sure. "This said the florists are to see the barley field on the island, Reservoir Park, where Mr. Reeves holds forth, is a lovely spot, having a commanding view of the whole city, a good place for a large gun or two in case of invasion, and there are guns up there, too, as I know. Exhibition Park. Now this is the deplorable where all agriculturists, all implement manufacturers, and all florists and all mechanics should go to see suitable buildings for exhibition purposes, it matters not what. There are streets after streets of horse and cow stables, of sheep and pig pens, of dog houses and poultry houses, and halls and halls and halls. Then there are more sparrows to the square foot than in any other place on this side of the Atlantic. Everybody should see those sparrows. This is where Vice President Chambers lives, and there is also there a very fine collection of plants; the bedding is well done. There also are some thoroughbred chickens;

thoroughbreds of all kinds left over at various times from the great September fairs they have every year. Go and see the chickens. May be, too, Mrs. Chambers will ask you to take a lunch, just to taste the best salad in the world. John makes this, and Sawyer never knew how to make a salad like it.

Then there is the Horticultural Gardens, presided over either by Mr. Dunbar, Dundas, or Duncan—perhaps none of these are right. Anyhow, everybody will soon know him, because he is a jolly, laughing, good-natured fellow, and will make all happy. In the gardens is the pavilion, where the convention is to be held, and it is the very best meeting place we have ever had; no rattle of drays, no screeching of engines or jingle of street car bells. An elegant building, surrounded with the greenest of lawns, smoothest of walks, finest of trees, and splendid bedding.

Rose growers will go to see John Dunlop's new golden yellow, "Toronto." It is superb, and is 21 karat gold.

You can get in Toronto genuine old-fashioned pop in genuine old-fashioned stone bottles; the bottles are as thick as they used to be. The corks are old-fashioned, tied in with a string, and the price is two pence. Also several white labels beat Bass. Lobsters at Jewell's beat anything in the way of shell fish. George Vair one morning invited me to take a drive through the city, so that I could get the lay of the land for the benefit of the convention. In going through the parade, says he: "This is the city of chestnuts." I says: "Do you mean Esculus Hippocastanum, or Castanea Vesca, Americana or Japonica?" His reply was: "They will all be ripe by the 20th of August." But really, without joking, Toronto is a great city for horse chestnuts.

As to entertainments at Toronto, Mr. Ewing said you can depend upon good music; Mr. Chambers said there will be chorusing; Mr. Saunders promises good walking. The entertainment committee will insure no starvation. Altogether it looks as if Toronto will out Boston Boston.

JOHN THORPE.

Chicago.

W. W. Wells, who sold his North Clark street store to S. Peiser last March, has since been sojourning in Michigan, but announces his intention of starting in again in Chicago the coming fall.

Geo. A. Solly, of Springfield, Mass., is in the city, looking over the field, with the view of locating here and working up a business as landscape gardener.

Paul Zoellner, superintendent of the Oak Grove Greenhouse and Cemetery, La Crosse, Wis., paid the city a visit last week.

Mr. Alex. Murdoch, of Pittsburg, accompanied by his wife and niece, passed through Chicago last week on his way to Colorado, where he will spend the summer. His headquarters will be at Greeley but he will visit other points in the state.

The Horticultural Society of Chicago held its regular quarterly meeting at the Sherman House last Saturday afternoon. In addition to the paper by Mr. J. A. Pettigrew, superintendent of Lincoln Park, and which appears elsewhere in this issue, Mr. Edgar Sanders read a very interesting paper entitled, "A Horticultural Dream," in which he traced an outline of the history and future possibilities of horticulture. He urged that some action be taken to compel owners of vacant lots around the city to keep them

at least free from weeds or the weeds cut down, so that they were not harbors from which new colonies of weeds were annually sent forth. The committee on by-laws submitted a proposed set, and the same were ordered printed and a copy sent to each member of the society, so that all might consider them at leisure, and be prepared to suggest at next meeting any changes that were deemed advisable. President Schneider found it impossible to be present, owing to pressure of work in connection with his duties as World's Fair director, and as such would continue for some time he tendered his resignation as president of the society, that the place might be filled by one who could give it the time and attention it deserved. A successor will be elected at the next meeting. First Vice-President Chadwick presided at the meeting. This was the first meeting at which essays have been read, the previous meetings having been taken up with the details of organization, and the members now feel that the society is fairly started on its work. Some interesting essays are promised for next meeting. The executive committee have not yet selected a hall for the fall exhibition, but expect to be able to announce a selection at an early date. Prospects for a good display at the exhibition are very excellent. Several members of the society have large lots of plants under careful culture for the express purpose of exhibition.

At Niles Center, Pochlmann Bros. are tearing down the houses on their old place, and are building five or six new houses at the new place started last year. F. Stielow is rebuilding six old houses, Schiller & Mailander are rebuilding four old houses, and Adam Harrer one. George Harter is building one new house 140x12, and Mr. Harms is building an entirely new place on Western avenue, two blocks south of Sulzer road, in Lake View.

John Weston says that sweet peas can't be grown satisfactorily in a sandy soil.

Some of the storekeepers claim that many of the growers don't cut their sweet peas to best advantage; that they cut the stems too short, and many of the flowers are not sufficiently developed.

Some of those who consign cut flowers to the commission men get them in too late in the morning. From the way business runs nowadays anything received after 9 o'clock stands much less chance of a sale than that received earlier. Trade is practically over by 10 o'clock now. All consignments should be in by 8:30 at latest to be handled to best advantage.

Toronto.

The regular meeting of the Toronto Gardeners' and Florists' Club held last night (8th) was the most enthusiastic that has yet been held and the attendance was good—about fifty-three as the club statistician informs me; in fact Bro. Long, of Buffalo, who was present, was under the impression that we were having a little convention of our own as a sort of rehearsal.

Mr. W. J. Stewart of Boston, whose presence was also expected, did not materialize until the next morning, he having unfortunately missed connection at Montreal.

A good deal of business in connection with the convention was done and various matter settled which will appear I suppose in the programme issued by the society.

An important item! A bowling alley

has been found in the city. The German Liederkantz Society have one in their building not far from headquarters which will probably be available for the occasion.

Mr. Long took the opportunity of giving his views as to a meeting of delegates from all the Gardeners' and Florists' Clubs in the States and Canada and it was the general opinion of the meeting that much good to the clubs and to individual gardeners and florists might be the outcome of such a meeting. A resolution to the effect that the secretary be instructed to write to the AMERICAN FLORIST announcing that such a meeting would be held was unanimously passed. Circulars will probably be forwarded by this club to the secretary of all the clubs whose addresses can be obtained, asking them to bring the matter before their respective clubs. I may ask that if any club should not receive a circular through lack of address, that they elect their delegates all the same. It was thought that this meeting need not be confined altogether to delegates, but should be open to all, the idea of having delegates being in order to allow any club to give power to act as directed in any particular matter they might wish to bring up at the meeting.

Mr. F. G. Foster read a very excellent and practical essay on sub-tropical bedding plants, which the club resolved to have published in the local dailies.

This morning most of the chairmen of the local committees met Mr. Stewart at the Queen's Hotel and had a general talk over matters. Mr. Stewart has now got all the information necessary to issue the preliminary programme, which I presume he will do at an early date.

The meeting afterwards adjourned to the Horticultural Pavilion where the convention will be held. Mr. Stewart, who when here in January only saw the Pavilion after dark, was very much pleased with the place, its acoustic properties being good, and being situated in a quiet locality members can have no complaint to make as to not being able to hear all that is said. The trade exhibit will be under the same roof, but will of course be closed during the sessions of the society.

It has been arranged that all trade exhibits should be addressed to the exhibitor in care of W. E. Wellington, Horticultural Gardens, Toronto, who will give a bond to the Customs Department that they will be returned to the United States after the convention, or it sold that the duty will be paid. It is specially requested that exhibits be shipped in good time in order to avoid disappointment. Communications as to trade exhibits should be addressed to Mr. Thos. Manton, florist, Eglinton, Ont. T. E.

Boston.

Mr. J. F. Hanson, an old and highly respected florist of Winchester, died on July 11.

At the July meeting of the Massachusetts Horticultural Society, Mr. Jackson Dawson, on behalf of the Gardeners' and Florists' Club of Boston offered the following premiums: For the annual exhibition, two prizes of \$100, and \$50 for mantel decorations and for the chrysanthemum show, two prizes of \$75 and \$50 for ten vases of ten varieties, ten blooms each, long stemmed.

At the Iris exhibition on July 11, the first prize was awarded to John L. Gardner for Iris Kempleri. H. H. Hunnewell and E. Sheppard & Son also exhibited very fine blooms of this showy flower.

but not in competition. The displays of hardy herbaceous plants from J. W. Manning, Wm. Martin, and Temple & Beard were exceedingly fine, as also were the native plants from Mrs. P. D. Richards, E. H. Hitchings and J. E. Coburn. Jackson Dawson showed an interesting group of fruiting shrubs, including a number of varieties of Ionia, ribes, prunus, etc., and prettiest of all, Eleanus longipes, Delphiniums, Japan lilies and candidams, hardy carnations, etc., together with a nice collection of fruit and vegetables, made up a very creditable exhibition, which was well attended.

A few days ago a party of seven, including such dignitaries as the presidents of the S. A. F. and of the G. and F. club, and several to visit the picnic grove at Weymouth Landing, with a view to perfecting arrangements for the coming excursion of the G. and F. club. The offer of a sail on Mr. N. F. McCarthy's boat was accepted as preferable to a trip by train, and as there was a roaring breeze they embarked in great glee, Mr. McCarthy being skipper and President Foster captain. Before reaching their destination, however, the honorable president of the G. and F. club took an involuntary ducking in the bay, owing to a slight misunderstanding which he had with the boom, whereat the worthy president of the S. A. F. has been continually laughing ever since, and it is doubtful whether he gets his face straightened out entirely in time for the Toronto convention.

Judging from the accounts of eye witnesses there was only one thing lacking to make the incident perfect, and that was a photographic camera. Scarcely a day is passing in an album would have been a picture of the party on the homeward trip, when the boat got firmly stuck in the mud. After long and fruitless efforts to start her they accepted the offer of a friendly passing sail which took them aboard and brought them safely home.

W. J. S.

Philadelphia.

This is the season for repairs; old benches have to be made new, bare spots touched up with paint and everything put in good working order for the fall campaign.

Pennock Bros. have been busy putting in new hardwood benches and making other repairs. Their's is one of the most complete retail stores in the country.

Mr. David Bearn with the help of some of his friends in the trade, who had been invited to the "moving," has about everything removed to his new place near Bala. Four houses, each one hundred by twenty, and under way. He will confine himself to cut flowers for the wholesale market. His brother has come from Scotland to learn the business and will no doubt be of great assistance to him.

The last meeting of the Florists' Club was very well attended, Mr. John May was present. A resolution was passed unanimously and a paper drawn up and signed by all present endorsing Mr. John Thorpe in the position of Chief of the Horticultural department of the World's Fair at Chicago.

The paper read by Mr. Geo. Watson on summer flowering annuals suitable for cut flowers showed that great care had been taken to make it full and complete. Many flowers were spoken of which should be given a trial, especially the "Bluet," which was said to be fast becoming a popular flower.

The question for discussion at the next meeting is, "how shall we go to Toronto?"

The chrysanthemum will be able to hold its own this fall at any rate. Large

quantities have been planted by all the leading growers and we confidently expect to see fine flowers in fair quantity by the first of October.

Mr. Alexander Scott, of R. Scott & Son, sailed for Europe a few days ago. He is in search of novelties. Novelties no doubt are the bread winners of the business, despite the fact that in the majority of cases when the novelty wears off there is very little left.

The base ball season has opened. July 4 the Craigs, of Mr. R. Craig's establishment, proceeded to Mr. Dreer's place at Riverton. Confidence they had in abundance, but the Dreer boys got the game. A royal good time however was enjoyed by everybody, Mr. Dreer having looked out for the inner man, and justice was done to his heroic feast. The return game is to be played at Mr. Craig's July 18. S.

Washington and Baltimore.

None of the 1,600 excursionists who went to Bay Ridge yesterday on the Columbia enjoyed the day more than the fifty Baltimore florists and their families who boarded the early morning boat. At the invitation of the Washington florists to meet them at Bay Ridge for an annual reunion the members of the Gardeners' Club of Baltimore extended the hand of good-fellowship to their brethren from the District. Including the wives and families, who formed an important part in the day's jollification, the whole party numbered about two hundred and fifty. The clever little device of the Washington Club of presenting a bouquet of flowers to every purchaser of a railroad ticket brought many down to the Ridge who were not members of the Florists' Club, and in consequence the pretty groves and parks, the pavilions and piazzas held a merry crowd all during the day.

The florists wore ribbon badges in red, white and blue, with silver lettering designating the cities they represented. The train from Washington and the boat from Baltimore arrived at their destination about the same time and as soon as greetings were exchanged between the clubs the flower growers of the neighboring cities, putting aside all thought of their business, set about immediately to devise some means for having fun. The fun in each case ended disastrously for the Baltimoreans, as it happened, every game being carried off triumphantly by the Washingtonians.

In the rifle-shooting ten men on each side were ranged against each other. The Baltimore florists had come prepared for emergency in the way of defeat, and when the District ten won they received a handsome banner of stars and stripes, suitably inscribed, as a trophy, to be hung up in their club rooms. "Bring a gorgeous silk banner with you next summer," advised the Baltimore president to the Washingtonian, "because we intend to go in and win."

An exciting base ball game was played, interrupted, however, by the rain, but leaving the score 17 to 14 in favor of the Washington florists. The light rain, beginning just as the afternoon excursionists were leaving the boat, was not prolonged enough to give any one a serious wetting or spoil the day's pleasure, but served only to freshen the grounds up a bit and cool the air delightfully.

Afterward the florists again essayed to match their powers, this time in a "tug of war," ending in a glorious, or as the Maryland men would have it, an inglorious victory for their opponents. It came

about this way: Six men each side pulled vigorously against each other by a stout rope. The Baltimoreans were heavy weights and the Washingtonians were light weights. A bystander, hailing from Baltimore, thought to lend an extra helping hand to his friends. Whereat, the on-looking Washingtonians locked to their club's side and pulled the Baltimore floriculturists all over the place. But it was fun for every one, notwithstanding the defeat, and that was the main object after all. The Washington Club invited the Baltimore Club to dinner and in return the Baltimore Club entertained the Washington Club at supper. At half past 7 the clubs separated and went their ways by boat and rail.

Among the Washington florists present were President MacEvers, Wm. R. Smith, superintendent of the Botanical Gardens; Messrs. Hale, Fields, Gude, Cadmus, Clark, Bologian, Erdmann, James Clark, William Clark, Philip Gorgas, John Cook and others. Among the Baltimore florists were the officers of the Gardeners' Club: Wm. Fraser, president; E. A. Seidwitz, vice-president; William B. Sands, treasurer; John Wiele, secretary; Henry Bauer, corresponding secretary; C. M. Wagner, librarian; and Wm. P. Creighton, Fred. Burger, Edward Kress, H. Walter, Conrad Hess, Charles Hamilton, John Donn, Henry Fisher, Henry Frederick, Jules Tishinger, Thomas Patterson, Charles Wagner, Isaac Moss, Robert Hallday, Robert Hallday, Jr., Philip Welsh, Thos. Vincent, Wm. McRoberts, Jr., L. M. Huggins, Louis Eckhardt, John Fleming, Louis Franklin, John Wagner, Parker Burbank, Jefferson Pentland, Henry Everhardt, Ed. Hermann, Messrs. Perry, Lehr, Hanske, Ebaugh and Smith.—*Baltimore Sun*, July 8.

News Notes.

HARTFORD, CONN.—Mr. John Coombs, the florist, has been in New York for the past week on business.

ST. LOUIS.—At the coming chrysanthemum show of the St. Louis Florists' Club prizes to the amount of \$1,500 will be awarded.

QUEBEC, CANADA.—The Quebec Horticultural Society will give an exhibition of flowers, fruits and vegetables the first week in September.

PROVIDENCE, R. I.—November 4 to 6 are the dates decided upon for the coming chrysanthemum show of the Rhode Island Horticultural Society.

NEW PETERSBURG, O.—W. R. L. Dwyer has started into business here with one house 21x60. He will erect several large houses the coming spring.

DES MOINES, IOWA.—Mr. R. A. Rollinson has purchased the interest of his partner, Mr. E. W. Bergstrom, in the firm of R. A. Rollinson & Co., and will continue the business.

DENVER, COLO.—The Colorado Nursery Company was incorporated June 30. The incorporators are Frank W. Hubby, Chas. L. Burpee, John L. Russell and Frank A. Bailey. Capital stock \$50,000.

THE Hartford County Horticultural Society has issued a premium list for the 1892 bulb exhibition. Copies may be had on application to the secretary, Edwin A. Taylor, box 1015, Hartford, Conn.

COUNCIL BLUFFS, IA.—The project of a great floral and fruit exposition is being

agitated here. Mr. L. A. Casper, the florist, has offered to donate \$5,000 for the purpose if the citizens will contribute the remaining sums necessary to its success.

LAMPASAS, TEXAS.—The fifth annual meeting and exhibition of the Texas State Horticultural Society was held here July 1 to 3. There was a large meeting and an excellent display of fruits, flowers and vegetables.

BATAVIA, N. Y.—Gus Noack, formerly of Rochester, has started in business for himself at this point and is building four greenhouses on Bank St. Three of the houses are 18x60 each and one 10x60. His name should be added to the directory as F.

LANCASTER, PA.—The evening of July 3 there was a heavy fall of hail in this section, and many of the florists around the city had all or nearly all of their glass broken. As usual the Florists' Hall Association proved a mascot, as there was no losses whatever among those that were insured. As a memento of the glorious fourth Bro. Schroyer has a huge hole in the plate glass window of the city store.

LOS ANGELES, CAL.—At the meeting of the Southern California Horticultural Society, June 29, there was read a paper on pansies by Wm. Barclay. Among the cultural recommendations of the essayist was one that the soil should be treated with salt to kill worms and prevent mildew. The salt should be applied at the rate of one-fourth pound to the square yard. Charcoal was also recommended, to keep the soil from becoming sour.

SAN FRANCISCO.—An extra meeting of the Florists' Club was held the evening of June 27. The subjects considered were the sale of plants and flowers from Golden Gate Park and street peddling. Various plans were considered for driving street peddlers in flowers out of the field, but no final decision was reached. The Cain Fruit and Nursery Co. was incorporated June 30. The incorporators are T. P. Cain, A. P. Jacobs, J. B. Agnew, and C. H. Patchett of this city and Geo. F. Heales of Versalia. The capital stock is \$72,000.

ROCHESTER, N. Y.—The eight acres of hardy roses in the nursery of Ellwanger & Barry now make a magnificent display of bloom. This is probably the largest plantation of roses in America, and when the plants are in bloom it is a sight to be long remembered. Among the roses now, or recently in bloom are Caroline D'Arden, Earl of Dufferin, Lady Arthur Hill, Lady Helen Stewart, Duke of Albany, Gloire Lyonnaise, Heinrich Schultheis, Marchioness of Lorne, Mrs. John Laing, Earl of Pembroke, Alphonse Soupe, Duchess of Albany, Grand Mogul, Miss Jennie Dickson and Queen of Autumn.

Sports.

Philadelphia.

The long prepared for contest between the ball teams of the Henry A. Dreer and Robert Craig nurseries was played at Dreer's nursery on July 4, and resulted in a complete victory of the Dreer boys by a score of 11 to 2.

Considerable interest has been taken in this game, and the victorious team expressed their delight at their success by engaging the village band to escort their defeated friends from the field of battle to the woods near by, where luncheon was served and general good feeling prevailed.

A return game is to be played at Craig's nursery on July 18, when it is prophesied the Jersey men will have no show at all. Features of the game were Faust's pitching for the Dreer men, he striking out fifteen men; the magnificent catch of a hot liner by Faunce, and the fine work at second base by Farrington, of the Craig team.

Following is the score:

DREER TEAM—	R.	B.	P.	O.	A.	E.
Faunce, 1b.....	2	2	3	2	0	
Faust, p.....	2	1	3	5	0	
Cole, 3b.....	3	2	1	2	2	
Roden, c.....	0	0	16	3	1	
Finnegan, ss.....	2	2	2	3	2	
Montgomery, cf.....	1	2	0	0	2	
Shuller, rf.....	1	1	2	3	2	
Smith, r.....	0	0	0	0	0	
Kairns, lf.....	0	0	0	1	1	

Total.....11 10 27 19 10

CRAIG TEAM—	R.	B.	P.	O.	A.	E.
Donahue, c and ss.....	0	0	10	3	3	
P. Mullin, ss and ss.....	0	1	0	2	2	
Kelly, 1b.....	0	0	5	0	5	
T. Mullin, lf.....	1	1	1	1	0	
Fritz, cf.....	0	0	0	1	0	
Carr, 3b.....	1	0	3	2	0	
Farrington, p.....	0	2	5	1		
McClure, 2b.....	0	1	3	2		
Smith, rf.....	0	0	0	0	1	

Total.....2 5 27 15 14

INNINGS—1 2 3 4 5 6 7 8 9
Dreer team.....3 2 2 0 0 0 0 2—11
Craig team.....0 2 0 0 0 0 0 0—2

JERSEYMAN.

Chicago.

A nine composed of retail florists faced another nine composed of wholesalers on the diamond last week. As can be imagined from the character of the opposing forces, the game was a hotly contested one.

The game was played at Summerdale, in a meadow just south of the establishments of the Reinberg Bros. who were the hosts of the occasion, and with the vim and dash for which florists are noted. About 40 of the boys turned up, besides a host of friends and admirers.

John Zeck, of Reinberg Bros., served up the curves and twists for the wholesale men in first class style, only six hits being made from his delivery. He also distinguished himself by some pretty tall kicking, but in this last, he was fairly out-donked by Mr. Scott, with Kennicott Bros. Talk about the mighty Kelly! Why! Scotty could give the prince of kickers ten points and then win easily! But Scotty caught a pretty good game and was a power with the stick, his home-run drive into a far-off potato field in the 6th was a corker.

Mr. Downs of Rose Hill officiated for the retail men in the first inning and was afterward relieved by Mr. Kirsht of Niles Center. Both pitched a good game. Jim Curran, behind the bat, played a superb game, only three errors being charged against him; he also hit the ball freely. Walter Kreitling played first base for the retailers, and distinguished himself by amassing a long string of the rankest of rank errors, and also by making more noise than all the rest of the players put together. But Walter made a couple of brilliant catches that would do honor to a professional. Joe Curran's right field rather disappointed his admirers in the first few innings, but in the sixth he stepped up to the plate a la Anson, with blood in his eye, taking a vicious swipe at the first

ball that sailed over the plate. The bat cleft in twain, was seen sailing for third, the ball took a cruise over second, and Joe scudded for first, which he reached safely. A minute later he stole second and third and came home on a passed ball. Phil Hauswirth, on second (retail), played his position in fine style; the features of his game were his great slides; the unfortunate part of these slides was that they were executed about midway between the bases, so they didn't count for any more than about three square inches of cuticle from his elbows, left on the slides. Frank Church's playing at third (wholesale) was most brilliant, his catch in the sixth brought down the house. It happened in this way: Frank had been hustling pretty lively in the first five innings and began to get tired, so when play was called he covered third and promptly went to sleep. A minute later he awoke with a start, and to his intense surprise he found the ball firmly clasped in his outstretched palms. This brilliant catch received a well merited round of applause. But there was Joe Whitehead in left field. He was supposed to catch any stray flies that might come his way, but the flies persisted in refusing to be caught. Walter Kreitling made the unkind remark that Joe could not catch anything, not even the small-pox. Now this was a gross libel on the left fielder, and clearly proven such in the very next inning. To be sure, Joe was at the bat, and his only business was to hit the ball. He is a good hitter, Joe is, but just then he would not have hit a balloon if it had come flying over his head, so he concluded to catch the ball. He did catch the very next ball—in the small of his back—and five minutes later, after some vigorous rubbing, he also caught his breath. This was glory enough for him. William Hanft did himself proud in the capacity of umpire on balls and strikes; his decisions were impartial to both sides. To be sure, Billy called it "ball" two or three times after the striker had made a terrific swipe at the ball, but small matters like that did not worry Billy any. Denny Gallagher was the umpire on balls. He had rather a hard time of it trying to convince the kickers that they were wrong and he was right. To be sure Denny's decisions were at times decidedly off color, but what umpire ever satisfied both sides? E. J. Harms and John Bruckner made some brilliant hits. A full game of nine innings was played with the final result of 13 to 14 in favor of the wholesale men. Following is the position of the two nines:

RETAIL.	WHOLESALE.
R. Downs, p.	John Zeck, p.
W. Kirsh, p.	— Scott, c.
Jim Curran, c.	J. Kelley, 1b.
Walter Kreitling, 1b.	C. H. Fisk, 2b.
F. J. Hauswirth, 2b.	Frank Church, 3b.
F. Kreitling, 3b.	Chas. McKellar, ss.
A. Bock, ss.	E. J. Harms, rf.
Joe Whitehead, lf.	John Bruckner, cf.
Joe Curran, rf.	Larry Keller, lf.
H. W. Kidwell, cf.	B.

Centauria Ruthenica.

Regarding this centauria a correspondent of the London *Garden* says:

"I wish at present to speak more particularly of the merits of this uncommon species as an effective foliage plant, though by no means deficient as a floral subject. Young plants three years old from seed closely resemble young palms, *c. p.* Cocos Weddelliana."

This is hardly in many parts of Great Britain. Hasit been tried in this climate?

Floral Difficulties.

The thoroughly practical little communication from A. N. C. in the *AMERICAN FLORIST* of July 2 opens my eyes to the fact that there are a great many difficulties that florists have to contend with which artists do not thoroughly take into consideration. So, we artists wonder somewhat at the conventionality of emblematic designs coming from the florists, never thinking of the arbitrary habits of the flowers themselves. I remember, now I am reminded of the fact, that buttercups and wild violets have an aggravating way of wilting as soon as picked; and also that the "water nymph" insists upon folding her bosom and shutting her eyes except during the morning hours. However, common field daisies and wild yellow lilies behave themselves better, and I have found that they will last several days. I had in mind an afternoon wedding when I suggested the use of pond lilies on such an occasion, but I remember now my struggle to keep the "water nymph" awake at two o'clock, on the occasion of an afternoon party, some few years ago. But notwithstanding this difficulty the effect produced was very beautiful and was greatly admired.

I am asked about the thickness of a hempen rope for the lover's knot. This is a matter which should be left to the discretion of the designer. Even though the rope be two inches in diameter, it is quite possible to entwine it with flowers in a way which shall completely hide any clumsiness. In fact, the gilded or silvered rope need only show itself enough to suggest the knot. But the idea of tying a couple together with a two-inch cable suggests something almost appalling. There doesn't seem to be much hope of liberty in such an affair! I can imagine, then, that a very pretty and dainty rope, half-inch in diameter, knotted at intervals and woven with white carnations, the rope being silvered. I call to mind some very beautiful marine pictures framed in rough sawed pine wood, and bound with hempen rope, the whole affair rendered in an effect of copper and gold bronze. These are the little touches of true and natural art which we ought to struggle for nowadays; it does mean a struggle, I admit, and we are liable to run against 'snags,' but then we ought to 'touch the unknown seas' and wrestle with the unknown difficulties, else we can never take the lead.

Mr. H. H. Battles mentions something of the auto-chromatic method of photographing colors, which is almost in common use today, particularly in France. I think this method is known by the term, Azanine plate. It simply means that the solar rays are brought to terms and do not act differently upon different colors. There is not the trouble in the use of this method that Mr. Battles supposes; it is a trifle expensive, presumably on account of the patents, yet it is in common use and is absolutely necessary in the photographic reproduction of colored pictures. As applied to the photography of natural flowers the result is marvelously truthful and surprisingly beautiful. A few more years and we will, it is hoped, see the Azanine plate in common use everywhere.

F. SCHUYLER MATHEWS.

To Gardeners' and Florists' Clubs.

There will be a meeting of delegates from Gardeners' and Florists' Clubs during the convention at Toronto, and all clubs are requested to elect delegates to attend this meeting and to instruct them

regarding any matters they wish to have brought before the meeting for action.

A circular invitation will be shortly sent to the secretaries of the various clubs by the Toronto club, but the invitation is general and any not receiving the circular are also invited to send delegates. It is believed that this meeting will be a most interesting and instructive one.

Don't fail to bring the matter up before the next meeting of your club.

The World's Fair.

The latest news regarding the Horticultural Department of the World's Fair is the withdrawal of Wm. Forsyth, the last appointee as chief. No further appointment had been made up to 4 p. m., July 14.

Mr. John Thorpe, who is now in Chicago, is regarded as almost certain to have charge of the division of floriculture. The fact has generally been accepted all along that Mr. Thorpe was the man for this division of the department.

Express Rates.

ED. AM. FLORIST.—Your article about exorbitant express rates hits the nail on the head. If anything curtails the profit of the commercial florist it is the unreasonably high rates charged florists on plants and flowers and as you truly remark they prevent hundreds of people and florists from buying at all; they prefer to do without the plants rather than submit to such robbery. We have hundreds of letters on file to show that people not only are charged double rates but even more. The Southern express companies are the worst to deal with and they greatly obstruct business in the south.

We have already begun to ship largely by freight and if the express companies fail to make concessions it will be well for all florists to ship all heavy orders of hardy plants by freight whenever practicable. We even find that plants arrive generally in better condition by freight than by express.

While the Society of American Florists considers the express rate matter would it not be well to agitate the question of asking congress to allow double the weight of goods to be shipped through the mails as at present allowed?

Louisville, Ky. NAX & NEUNER.

Names and Addresses of Chairmen of Committees of Toronto Gardeners' and Florists' Club for S. A. F. Convention, August, 1891.

Reception Committee—Mr. John Chambers, Superintendent Parks and Gardens, St. Lawrence's Hall, Toronto, Ont.

Trade Exhibit Committee—Mr. Thomas Manton, florist, Eglinton, Ont.

Entertainment Committee—Mr. W. J. Laing, 401 Huron street, Toronto, Ont.

Ladies' Committee—Mrs. Fraser, florist, Spadina Crescent, Toronto, Ont.

Introduction Committee—Mr. F. G. Foster, florist, Hamilton, Ont.

Decoration Committee—Mr. C. Arnold, florist, 521 Queen street, W. Toronto, Ont.

Finance Committee—Mr. J. H. Dunlop, florist, corner of Bloor street and McKenzie avenue, Toronto, Ont.

Printing and Badge Committee—Mr. S. E. Briggs, of the Steele Brothers Co., corner of Front and Jarvis streets, Toronto, Ont.

Bureau of Information—Mr. George Vair, care Sir D. S. McPherson's Chestnut Park, Toronto, Ont.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line. Agents;
 Inch, \$4.50; Column, \$14.00.
 Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
 30 times, 20 per cent; 52 times, 30 per cent.
 No reduction made for large space.

The Advertising Department of the AMERICAN
 Florist is for Florists, Seedsmen, and dealers in
 ware pertaining to those lines ONLY. Please to
 remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure
 insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

HORTICULTURE AN ART.

A prominent member of the Chicago
 board of directors has said: "You horticulturists
 are artists or scientists, not business men except in a few instances,
 and can hardly claim a position requiring
 the executive and business capacity
 demanded by this department."

Admitting the truth of this, which we
 do not, is not professional skill rather
 than business capacity the greater essential
 and more worthy the honor of the
 position? We occupy a grand field. Here
 art and science are so mingled that no art
 and no science passes it in possibilities.
 He to whom nature and education has
 given both in a broad sense may be fitly
 called a genius. Such a man in many
 ways is John Thorpe and all who have
 known him will admit it. Is the execution
 of business detail paramount to such
 knowledge? Is not this a department of
 which the head should possess that science
 and art and his assistants attend to the
 business detail? We think so and it
 is in this view that we can support the
 claims of Mr. Thorpe for the floral divi-
 sion or even for the head of the depart-
 ment.

Coming Exhibitions.

July 22-23, Toronto, Ont.—Flower
 show Toronto Electoral District Agricul-
 tural Society. J. P. Edwards, Sec'y, 146
 Wellington St. West.

September 1-4, Boston.—Annual exhibi-
 tion of plants and flowers Mass. Hort.
 Society. Robert Manning, Sec'y, Horti-
 cultural Hall, Tremont St.

September 2-3, Galt, Ont.—Fall exhibi-
 tion Galt Horticultural Society. Thomas
 Vair, Sec'y.

September 8-10, Hartford, Conn.—Fall
 exhibition Hartford County Hort. Socie-
 ty. Edwin A. Taylor, Sec'y, P. O. box
 1015.

September 15-17, Boston.—Annual exhibi-
 tion of fruits and vegetables, Mass.
 Hort. Society. Robert Manning, Sec'y,
 Horticultural Hall, Tremont St.

November 2-7, Louisville, Ky.—Chrys-
 anthemum show Louisville Florists.

November 2-8, New York.—Chrysanthemum
 show Madison Square Garden. J. W.
 Morrissey, Sec'y, Madison Square
 Garden.

November 2-5, Hartford, Conn.—Chrys-
 anthemum show Hartford County Hort.
 Society. Edwin A. Taylor, Sec'y, P. O.
 box 1015.

November 3-6, Boston.—Chrysanthemum
 show Mass. Hort. Society. Robert
 Manning, Sec'y, Horticultural Hall, Tremont
 St.

November 3-6, Milwaukee, Wis.—
 Chrysanthemum show Wisconsin Florists'
 and Gardeners' Club. W. H. Ellis,
 Sec'y, 133 Mason St., Milwaukee.

November 3-7, Detroit, Mich.—Chrys-

anthemum show Detroit Florists. Robert
 Flowerday, Sec'y, 460 John R. street.

November 4-6, Providence, R. I.—Chrys-
 anthemum show Rhode Island Hort.
 Society. C. W. Smith, Sec'y, 55 West-
 minister St.

November 4-6, Wooster, O.—Exhibition
 Wooster Floral Club. W. A. Porter,
 Sec'y.

November 5-7, Erie, Pa.—Chrysanthemum
 show Erie Chrysanthemum Club.
 H. Tong, Sec'y.

November 5-11, Bay City, Mich.—
 Chrysanthemum show Bay County Hort.
 Society. T. J. Cooper, Sec'y, 811 North
 Water street.

November 10-12, Pittsburgh.—Chrysanthemum
 show Pittsburgh and Allegheny
 Florists' and Gardeners' Club. G. Osteric,
 Sec'y, 508 Smithfield St., Pittsburgh.

November 10-12, Newport, R. I.—Chrys-
 anthemum exhibition Newport Horticultu-
 ral Society. James Galvin, Sec'y.

November 10-12, Toronto, Ont.—
 Chrysanthemum show Toronto Gardeners'
 and Florists' Club. A. H. Ewing,
 Sec'y, Normal School, Toronto.

November 10-12, New Bedford, Mass.—
 Chrysanthemum show New Bedford Gar-
 deners' and Florists' Club. Geo. C. Bliss,
 Sec'y, 34 Arnold St.

November 10-12, Washington, D. C.—
 Chrysanthemum show Washington Florists'
 Club. Engene Cadmus, Sec'y, 1419
 R St. N. W.

November 10-12, Oshkosh, Wis.—
 Chrysanthemum show Oshkosh Florists'
 Club. Mrs. G. M. Steele, Sec'y.

November 10-13, Philadelphia.—Chrys-
 anthemum show Penna. Hort. Society.
 D. D. L. Farson, Sec'y, Horticultural
 Hall, Broad St.

November 10-13, Chicago.—Fall exhibi-
 tion Horticultural Society of Chicago.
 James D. Reynolds, Sec'y, Riverside, Ill.

November 10-13, Minneapolis, Minn.—
 Chrysanthemum show Minneapolis Florists'
 Club. E. Nagel, Sec'y, 1116 West
 Lake St.

November 10-14, Indianapolis.—Chrys-
 anthemum show Society of Indiana
 Florists. W. G. Bertermann, Sec'y, 37
 Mass. Ave.

November 11-12, Worcester, Mass.—
 Chrysanthemum show Worcester County
 Hort. Society. Edward W. Lincoln,
 Sec'y, 5 Oak St.

November 11-12, Galt, Ont.—Chrysanthemum
 show Galt Hort. Society. Thos.
 Vair, Sec'y.

November 11-12, Montreal.—Chrysanthemum
 show Montreal Gardeners' and
 Florists' Club. W. Wilshire, Sec'y, 688
 Sherbrooke St.

November 11-13, St. Louis.—Chrysanthemum
 show St. Louis Florists' Club. S.
 Kehrman Jr., Sec'y, 21 South Broadway.

November 11-13, Springfield, Mass.—
 Chrysanthemum show Hampden County
 Hort. Society. George D. Pratt, Sec'y,
 192 Maple St.

November 11-13, Utica, N. Y.—Fall exhibi-
 tion Utica Florists' Club. J. C. Spencer,
 Sec'y.

November —, New Orleans, La.—
 Chrysanthemum show New Orleans Horti-
 cultural Society. Chas. Wesc, Sec'y,
 Third and Prytania Sts.

November —, Buffalo.—Chrysanthemum
 show Buffalo Florists' Club. Dan'l
 B. Long, Sec'y, 457 Main St.

November —, Baltimore.—Fall exhibi-
 tion and chrysanthemum show Gar-
 deners' Club of Baltimore. Henry Bauer,
 Sec'y, 1875 N. Gay St.

November —, London, Ont.—Chrysanthemum
 exhibition Forest City Florists'
 and Gardeners' Society. Wm. Gam-
 mage, Sec'y, P. O. box 155.

November —, Germantown, Pa.—
 Chrysanthemum show Germantown
 Hort. Society. Thos. E. Meehan, Sec'y.

November —, New Haven, Conn.—
 Chrysanthemum show New Haven
 Chrysanthemum Club. Miss Frances S.
 Ives, Sec'y, 478 Orange street.

November —, Syracuse, N. Y.—
 Chrysanthemum show Central New York
 Hort. Society. H. Youell, Sec'y, 228
 Beecher street.

Catalogues Received.

P. Van Waveren Jz. & Co., Hillegom,
 Holland, Dutch bulbs; James Veitch &
 Sons, Chelsea, England, plant novelties;
 V. H. Hallow & Sons, Queens, N. Y.,
 forcing bulbs; Gebruder Van Veldman,
 Helle, Holland, Dutch bulbs; John A. Scol-
 lay, Brooklyn, N. Y., heating and ventila-
 ting apparatus; John Bloomfield, Oval
 City, O., cabbage plants, etc.; C. B. Whit-
 nall & Co., Milwaukee, Wis., bulbs and
 seeds.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at
 the rate of 10 cents per line (seven words con-
 sidered a line) for the first week. Cash must accompany order. Plant advts.
 not limited under this head.

SITUATION WANTED—In either commercial or
 private place; single, English, age 37; 7 years ex-
 perience. Address F. B. care American Florist.

SITUATION WANTED—By an experienced cut
 flower grower, with first class reference. West
 preferred, single. Address F. T. care Am. Florist.

SITUATION WANTED—By a young man; wishes
 a steady engagement by first of August; growing
 roses and all other kinds of cut flowers; best of re-
 ferences given. Address F. T. care Am. Florist.

SITUATION WANTED—By a first class gardener;
 German, single, age 28 years, for commercial or
 private place; good rose and cut flower grower, and
 all kinds of greenhouse and bedding plants; steady
 and sober. A turnish good references. Address
 N. G. cor. 3rd and Jefferson sts., Springfield, Ill.

SITUATION WANTED—By practical, trustworthy
 gardener, master of all the trades in the garden
 grounds or large commercial plant; thoroughly
 experienced in all branches, particularly qualified
 in roses, and florist stock in general. Work week
 and landscape gardening; unexcelled in store plants,
 palms and orchids. Address giving reference, age
 experience; honor. A first class place only required.
 Unexceptional reference. Married, single family.
 Address, stating wages. BOTANIST,
 Forbes St. and Craft Ave., Pittsburg, Pa.

WANTED—Female florist, English or German pre-
 ferred, to be employed in home and outside; wages given
 to right party. A good chance. Address
 FLOWERS, box 6, Chattanooga, Tenn.

WANTED TO RENT—For a term of years, or
 would buy a florist business with from \$300 to
 15,000 ft. of glass in a good location, where a live man
 could make it pay. Address
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WANTED—A steady, energetic young man, who
 understands the propagation and growing of
 plants, etc., and who is competent to take charge of
 commercial place. Address giving reference, age
 and wages wanted. L. K. F. PACOCK, Alto, N. J.

WANTED—Floral artist. Position will be vacant
 October 1st. Must be skillful, quick and of
 pleasing address. A good situation for a good man,
 none other need apply. Give reference and state
 salary expected. Address
 A. M. & J. B. MURDOCH, Pittsburg, Pa.

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 tion. R. DAVIS & SONS, Morrison, Ill.

FOR SALE—A well established and paying retail
 florist business. Address
 Box 1024, Duluth, Minn.

FOR SALE OR RENT—3 greenhouses at Rogers
 Park; will sell reasonable, or will take partner
 with some capital. Address
 Miss. H. O. ZIEGLER, Rogers Park, Ill.

FOR SALE—Six thousand feet Hitchings 4-in. pipe,
 nine foot lengths, at 8 cents. Also four Hitch-
 ings boilers, two No. 12, and two No. 17. All in first
 class shape. Address
 C. A. REESER, Springfield, Ohio.

WANTED.

A practical young man (German preferred) with
 a few hundred dollars capital, to take interest in a
 good, old-fashioned florist business, either to run
 the greenhouse or cut flower part of store. For all
 particulars call at once K. K. care American Florist,
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BOILERS FOR SALE.

No. 1, Upright 3-horse power, used 4 years \$25.00.
 No. 2, Horizontal 10-horse power, used 6 yrs. \$30.00.
 Both in good condition and heated to the same
 class surface that we now heat with a 2-horse
 power boiler. De Witt Bros., Bristol, Pa.

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Full line of FLORISTS' SUPPLIES.
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OPEN NIGHTS AND SUNDAYS.
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1000 Strings Smilax.
STRONG AND CLEAN.

For \$10.00 per hundred; or small lots, 12c.

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Palms and Dracaenas.

The largest stock in the west at \$5.00 per 100 to \$1.00, \$2.00 to \$10.00 each. Cyas revoluta, 50c to \$5.00 and \$5.00 each. Cyas leaves 5c to 50c each.
DRACENA INDIVISA AND VETCHIL,
3-inch pots, strong, 15 to 18 inches, 80¢ per 100.
Send for wholesale price list and descriptive catalogue.

W. J. HESSER, Plattsmouth, Neb.

THE
EMERSON
PATENT BINDER
Price postpaid
75 CENTS.
Address
American Florist Co.
CHICAGO.

Showing the
appearance of
the Binder when
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THE
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Every subscriber
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Cut Flowers.

	BOSTON, July 13.
Roses	2.00 @ 4.00
Carnations	.50 @ .75
Sweet peas	.10 @ .20
July of the Valley	4.00
Pink pond lilies	2.00
Clostris	12.00
Smilax	50.00
Asparagus	.50
177 leaves	.50
Adiantum	1.00

	PHILADELPHIA, July 13.
Roses, Beauties	4.00 @ 10.00
" La France, Albany	3.00 @ 4.00
" Mermete, Brides	4.00
" Perles, Niphotos	3.00
" Marie Guillots	4.00 @ 5.00
Valley	.75 @ 1.00
Carnations	.75 @ 1.00
Sweet peas	.35
Adiantum	1.00
Smilax	15.00 @ 20.00

	NEW YORK, July 13.
Roses, Beauties	2.00 @ 15.00
" Perles, Gontiers	1.00 @ 2.00
" Niphotos, Souva	1.00 @ 2.00
" Mermete, Brides, Cousins	1.00 @ 3.00
" Versailles, Hostes	1.00 @ 3.00
" La France, Albany	2.00 @ 5.00
" Wootons	2.00 @ 2.00
Carnations, long	.50
Mignette	.75 @ 1.00
Smilax	10.00 @ 15.00

	CHICAGO, July 14.
Roses, Am. Beauties	8.00 @ 10.00
" La France, Albany	1.00 @ 2.00
" Perles, Niphotos	2.00
" Brides, Wootons	3.00
" Mermete	2.00 @ 3.00
Carnations, long	1.00
Carnations, short	1.00
Capiduous	2.00 @ 3.50
Sweet peas	.20
Smilax	15.00 @ 18.00
Adiantum	1.00

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Cut Flowers & Florists' Supplies

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87 Bromfield Street, BOSTON, MASS.
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N. F. MCCARTHY & CO.

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1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
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We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.
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**WHOLESALE CUT FLOWERS AND
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THE WISCONSIN FLOWER EXCHANGE.
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CUT SMILAX

At Summer prices—15 cents. Quality first class.
Shipped on shortest notice. Telephone No. 15.

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MANUFACTURERS OF

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Special long stem Rose Boxes,

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FOUR IN SET

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" 10 x 23 "

" 12 x 34 "

Price \$3.00 per 100 sets, packed, F. O. B. Chicago. All other styles of boxes for Florists

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3,000,000 HARDY CUT FERNS

MOSS, Sphagnum and Green Sheet.

BOUQUET GREEN & FESTOONING

of all kinds always on hand. In fact

anything that grows wild

HARTFORD & NICHOLS,

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W. F. SHERIDAN,
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Orders to be shipped will receive prompt attention.

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JOHN YOUNG,

WHOLESALE FLORIST

53 WEST 30TH STREET,

NEW YORK.

A. S. Burns. J. I. Raynor.

BURNS & RAYNOR,

WHOLESALE FLORISTS,

11 West 28th St.,

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C. STRAUSS & Co.

GROWERS OF CUT FLOWERS.

— WHOLESALE ONLY. —

SPECIALTY—Filling Telegraphic Orders.

WASHINGTON, D. C.

ELLISON & KUEHN,

— WHOLESALE —

FLORISTS,

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ST. LOUIS, MO.

A complete line of Wire Designs.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,

NEW ROCHELLE, N. Y.

New and

Rare Plants

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Hardy

Plants.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

ORCHIDS.

The best stock in the WORLD. Nearly five

acres devoted to their culture.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

THE AMERICAN FLORIST

AND

THE AMERICAN GARDEN

in Club one year for \$2.50.

Address **AMERICAN FLORIST CO.,**

54 La Salle St., CHICAGO

☞ Re Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTHELEMS, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Wethersfield, Conn.

HENRY A. SALZER, manager of the John A. Salzer Seed Co., La Crosse, Wis., left for Denver, Col., and California points July 9.

J. LELAND FOGG, formerly of Chicago, purchased the seed business of H. G. Higley at Cedar Rapids, Iowa, last spring, and is now located at that point.

JOHN LEWIS CHILDS' libel suit against the *Rural New Yorker* for \$75,000 is now in full swing in the New York courts. The charges and answers are very voluminous and as Mr. C. is said to be thoroughly in earnest, a precedent will doubtless be established in the upper courts as to what a man may say in a catalogue and to what extent an editor may reflect on the motives of the catalogue man.

A Title for a Turnip.

SEEDSMAN of rare enterprise

And advertising fame

Has got a mammoth turnip now

For which he wants a name.

And for the name adjudged the best

He'll pay a golden pile,

To make his turnip through the land

All gardeners beguile.

He realizes, probably,

That his bright pamphlet page

Should glorify his turnip as

The turnip of the age.

He wants a name to win the man

who hoes and rakes and digs,

So what's the blooming matter with

The Reverend Doctor Briges?

The Colonel Shepard has a ring,

So has the D. B. Hill,

The Tolstoi patronage would win,

So would the Buffalo Bill.

If just for fun he'd christen it

To win the western ear,

How sounds the Duke of Simpleton,

The Narragansett Peer?

The Kipling or the Phillips Brooks

Might make the turnip sell,

And as the Great Fair's booming, the

Columbus might sound well.

The Turgeneff, the Ibsen, and

The Jerry Simpson, too—

Oh, any of these titles known

From Dan to Kalamazoo.

Would send the turnip banging down

The garden path of fame,

Should it but have the merit to

Prove worthy of its name.

—R. K. M. in *Puck*.

Cactus Plants Not Dutiable.

(G. A. 669)

Before the U. S. General Appraisers at New York, June 11, 1891.

In the matter of the protests, 7097 8 9, of Anna E. Nickels, against the decision of the collector of customs at Corpus Christi, Texas, as to the rate and amount of duties chargeable on certain cactus plants imported at Laredo, April 18, 1891, and May 4, 1891, entries 457 and 522.

Opinion by SHARRETT'S, General Appraiser.

The goods in question consist of specimens of several varieties of Mexican

cactus plants, upon which duty was assessed at 20 per cent. ad valorem, under paragraph 282, act of October 1, 1890.

The deputy collector at Laredo states that the importer "is engaged in the business of collecting such plants for the northern market, and is bringing in quite a large quantity of them to stock her garden in this city."

The plants need no protection in this latitude, but if taken to a northern climate I presume they would."

The appellant claims that the plants "should have been admitted free under paragraph 666 of the free list as decorative plants. These plants are grown under glass in northern and eastern cities exclusively for decorative purposes."

As held by us in G. A. 290, it is not the specific use to which particular plants are to be put by the person or persons importing them, but the *chief* use to which such plants are applied that controls their classification, and although the cactus plants in question may be grown in the open air in some section of the country, we find that their chief use is for growing under glass for decorative purposes.

The protest is sustained.

JUST BEAR in mind that the AMERICAN FLORIST goes to everyone in the trade and when you advertise in its columns you reach every florist in America.

THE TIME for the annual convention of the Society of American Florists is approaching. Will you attend? Better begin now to shape your affairs so that you can safely leave your business for a week or so in August. The man who has regretted the time and expense of attending these conventions has yet to be found.

PLEASE NOTE that various changes and additions to our forthcoming exhibitions are made in nearly every issue. The information you wanted last week may be given this week.

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.



BULBS. BULBS. BULBS.
CHINESE NARCISUS.

Order Now if you wish to secure BEST GOODS at Lowest Rates.
AURATUM, LONGIFLORUM, RUBRUM, KRAMERI, ALBUM, ETC. CALIFORNIA BULBS.

We guarantee our best stock at the most reasonable rates if ordered now.

Australian Palm and California Flower Seeds.
Send for our Newest Trade Price List.

H. H. BERGER & CO.,
P. O. Box 2232, SAN FRANCISCO, CAL.
Mention American Florist.

LILIUM HARRISI.

TRUE BERMUDA EASTER LILY.

READY AUGUST 1st.

Our bulbs are the finest and best selected that the "Island" produces. Specially grown on contract for our personal sales, and STRICTLY TRUE.

Circumference of Bulbs.	Per 100	Per 1000
SELECTED, 4 TO 5 INCHES	\$ 2.50	\$20.00
5 TO 7 INCHES (The best size for florists)	5.00	45.00
EXTRA, SELECTED, 7 TO 9 INCHES	7.00	65.00
VERY LARGE, 9 TO 12 INCHES	12.00	105.00

For terms of credit &c., see our Bulb List free to all. Send a list of your wants for special prices.

FREESIA REFRACTA ALBA, now ready. **AMERICAN GROWN** large bulbs, \$1.00 Per 100
Extra Selected, large bulbs, \$1.25 100
Florists Using LILY OF VALLEY, BERLIN PIPS, ROMAN HYACINTHS, NARCISUS, DUTCH HYACINTHS, TULIPS, &c., will do well to send lists for our Special Offers. **THE QUALITY OF OUR BULBS IS UNEXCELLED.**

Z. DE FOREST ELY & CO.,
WHOLESALE IMPORTERS OF BULBS,
1301 and 1303 Market Street, PHILADELPHIA, PA.

We ask for a chance to quote you First Class

FORCING BULBS.

Our prices will save you money.

Freesia Refracta Alba, ready now, | **Calla Bulbs**, select bulbs.
at \$7.50 per 1000. Ready July 10th.

W. W. BARNARD & CO.,

6 and 8 North Clark Street, CHICAGO, ILL.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

LILY OF THE VALLEY PIPS.

Strong flowering pips from sandy soil with good roots, including cases and 1 o. b. steamer, Hamburg, at Mark 23.00 per 1000. Offer for next lot.

J. TIMM & CO.,
Elshorin in Holstein, Germany.

SPECIAL LOW PRICES
—ON—
Lilium Harrisii, Longiflorum, Candidum, Roman Hyacinths, Paper White Narcissus, and all other kinds.

DUTCH HYACINTHS,
TULIPS, CROCUS, SPIRÆA, LILY OF THE VALLEY, AZALEA INDICA, ROSES, ETC., ETC.

Wholesale price list on application to

HULSEBOSCH BROS.,

P. O. Box 3118. NEW YORK CITY.

The only Dutch Bulb Growers of whose firm there resides a member in New York to conduct the business. So that we can be reached always.

**GARDINER'S
BULBS**



DIRECT
CONSIGNMENTS FROM FRANCE,
ENGLAND, HOLLAND,
GERMANY, ETC.



We can give you the inside track on forcing bulbs, both in quality and price. Write us at once. Special Wholesale Price List now ready. Don't foot with poor stock. Get your supplies from us.

J. GARDINER & CO.
BULB GROWERS AND IMPORTERS,
PHILADELPHIA, PA.

FORCING BULBS!

For Summer and Fall Delivery.

Early orders solicited for the following:
Roman Hyacinths, Paper White Narcissus,
Lilium Candidum, Etc., from

LS BREMOND fils, Ollioules, France.

Dutch Hyacinths, Tulips, Narcissus, V. sion, Crocus, Spiræas, Etc., from

J. V. VAN ZANTEN & ZONEN,
Established 1837. **HILLEGOM, HOLLAND.**

LILIUM HARRISII and **LONGIFLORUM**, July and August delivery, direct from the growers in Bermuda, warranted true and strictly prime, at the following special prices if ordered before July 1st: Per 1000 Per 100

Size, 5 to 7 inches in circum.	\$ 40.00	\$ 5.00
Size, 7 to 9 " " " " " " " " " " " "	60.00	7.00
Size, 9 to 11 " " " " " " " " " " " "	105.00	12.00

FREESIA refracta alba, June delivery, Largest size, selected bulbs only, 9.00 1.00, second size, flowering bulbs, . . . 6.00 .75

CALLAS, Dry Roots, Aug. delivery, Extra large, selected, 80.00 9.00

CHINESE NARCISSUS, Oct. delivery, Extra large, selected bulbs, . . . 75.00 9.00

LILY OF THE VALLEY, Nov. delivery, True Berlin or Hamburg pips, 3 years old, extra strong, in cases of 2,500, \$9 per 1000. Special price on large lots. The above quotations are subject to advance later in the season.

ROSES, CLEMATIS, AZALEAS, RHODODENDRONS, Etc., imported to order from Holland (Boskoop), France or Germany, at lowest prices. For fuller particulars, see price lists, which will be mailed free to applicants. ✂ Estimates cheerfully given.

Address **J. A. DE VEER**,
Agent for Leading Foreign Bulb and Seed Growers, Nurserymen, Etc.,
154 East 34th Street, New York.

L. Harrisii

NOW READY.

J. C. VAUGHAN,
CHICAGO.

DAFFODILS FOR FALL DELIVERY.

We have had no frosts or snow in South of Ireland as in Holland and South of England; therefore Bulbs are very promising. Wholesale lists post free, and July delivery guaranteed. Collection complete and prices very moderate.

WM. BAYLOR HARTLAND, F. R. H. S., Seedsman,
CORK, IRELAND.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.

HERMAN BUDDENBORG,
HILLEGOM, near Haarlem, HOLLAND,

WHOLESALE GROWER OF ALL KINDS OF

DUTCH BULBS AND ROOTS

Informs all intending purchasers that it will pay them to write or his wholesale price list. Special prices will be given to large importers on application. Prime quality at the very lowest prices is guaranteed by

HERMAN BUDDENBORG,
WHOLESALE DUTCH BULB GROWER,
HILLEGOM, NEAR HAARLEM, - - - HOLLAND.
Mention American Florist.

LILIUM * HARRISII.

F. R. Pierson & Co.,

TARRYTOWN, NEW YORK, U. S. A.

HYACINTHS, TULIPS, SPIRÆAS,
FREE OF DUTY NOW.

1851. **P. VAN WAVEREN, Jz. & CO.** 1891.

AMERICA NURSERIES, HILLEGOM, HOLLAND,

Beg to announce to the trade their Price List is ready, and will be mailed free on application to their Agent in the U. S.

C. H. JOOSTEN, 3 Coenties Slip, NEW YORK.
Mention American Florist.

R. VAN DER SCHOOT & SON,
HILLEGOM, - HOLLAND,
Largest Growers of
HYACINTHS, TULIPS, NARCISSUS,
SPIRÆA, LILIES OF THE VALLEY, ETC.
HEADQUARTERS FOR FORCING BULBS.

Wholesale Importers should write us for prices.
OUR NEW TRADE LIST NOW READY.

DUTCH AND OTHER BULBS.

E. H. KRELAGE & SON, HAARLEM, HOLLAND,
have published their new Wholesale Trade List of all sorts of bulbs and tuberous rooted plants, American edition (No. 505), which is sent to the trade only on prepaid application.

Price of Admission to Exhibitions.

ED. AM. FLORIST. I am heartily in favor of a low admission price to our exhibitions, and if there is to be any difference in the price of admission during the day from that in the evening, let the lower price be for evening admission, by all means.

Wealthy people can find time and money to visit all the large conservatories, large commercial places, and private collections of plants, though they be at a good distance; nay, they do better than that, by having such collections of their own. But how is it with the mass of the people whose lives in many cases need just this breath of sweetness and enjoyment that such an exhibition affords? Can they leave their work during the day to get such a whiff of new life? The truth is, it is impossible for the great majority to go to such a place at any other time than in the evening, and these are the very ones that need to go the most.

Let the admission be low, especially in the evening, and these are, you suggest, S. T. A.

Answers to Queries.

C. C. L., California, asks: 1. How to propagate Cape Jasmine (Gardenia)? 2. What is the best book on raising seeds for market?

1. From cuttings of the half-ripe wood, but if your conveniences are good you may strike the cuttings with success at any time of the year. The cuttings should be put in in frames where they can be kept moist, away from wind and shaded overhead, not only by a sash or screen immediately over the frame, but too by a lath, brush or other shade-screen, say five feet above the frame, just as northern nurserymen raise thousands upon thousands of plants from cuttings in summer. 2. We know of no such book. W. F.

An Editorial Notice.

The following from the Salem, Oregon, *Statesman*, shows that the horse editor is equal to any occasion:

"A TROPICAL PLANT.—Mrs. William England brought to this office yesterday a tropical plant from the garden of Mrs. W. J. Folley. It is certainly a thing of beauty, evidently belonging to the calla family. The botanical editor being out, the horse editor said he thought it was a huge pepper pod, with a pistil in the center, and trimmed with daffyns and thingumbobs all around. The horse editor admired the plant very much."

Postage on Cut Flowers.

In answer to the inquiry as to postage on cut flowers in your last issue, would say that the Pittsburg postoffice has ruled that one cent for each ounce must be paid. Pittsburg. A. M. & J. B. MURDOCH.

SEND IN your adv. now for the convention supplement which we shall publish with our issue for August 13.

Pansies, Extra.

The Jennings strain of large flowering Pansies, the finest in the market, is now ready. Florists who have used this strain say it is the best they can get. It is finer than last year's Seed, finest mixed, . . . trade pkt 25c., 50c., \$1.00 Large yellow with dark edge . . . 25c., 50c., \$1.00 Yellow, per ounce, \$5.00. Trade, per ounce, \$5.00. Plants in any quantity ready Sept. 1, 5c. per 100 by mail; \$5.00 per 100 by express. ADDRESS E. B. JENNINGS Pansy Grower, Box 76, SOUTHPORT, CONN.

Pansy Seed.

CHOICEST QUALITY AND STRAINS OBTAINABLE.

	1/2-oz.	1-oz.	1 1/2-oz.	2-oz.	1-1/2-oz. pkt
Trimardeau, choicest French mixed, unsurpassed in brilliancy of color and size of flowers, some measuring from 3 to 4 inches across	\$2.50	\$1.50	\$1.00	.75	.50
per lb. 30.00, per 1/2 lb. 15.00, per 1/4 lb. 7.50	3.00	2.00	1.50	1.00	.75
Same, golden yellow	3.00	2.00	1.50	1.00	.75
Same, purple	3.00	2.00	1.50	1.00	.75
Order, or Imperialis, Prize Pansies, 3 and 5 bloated, extra	4.00	2.50	1.50	1.00	.75
DEVEER'S CHOICE MIXED, composed of the best strains and varieties of its importation	4.00	2.50	1.50	1.00	.75
Bucquet's, new, spotted, large flowering show Pansies, somewhat smaller than Trimardeau, but of even more exquisite markings and richer colors, produced by many the finest strain produced yet. This variety produces few seeds, and is very scarce	6.00	4.50	3.00	2.00	1.50
Cassier's, 3 and 5 bloated, giant, extra fine	6.00	4.50	3.00	2.00	1.50
Roemer's, new 5 spotted giant, producing enormous flowers	6.00	4.50	3.00	2.00	1.50
Improved Large Flowering, (fine strain), mixed	1.50	1.00	.75	.50	.30
Black dined golden bronze, white, pure yellow, pure	1.50	.75	.50	.30	.15
Light bronze, dark bronze, Emperor William, blue . . . . .	.75	.50	.30	.20	.15
Faust, King of the Blacks, fine for bedding; Lord Beaconsfield, purple . . . . .	.75	.50	.30	.20	.15
Mahogany (rubra); Prince Bismarck, brown and golden bronze marked; quadricolor, white and yellow; quality, mixed; each . . . . .	.75	.50	.30	.20	.15
Five German mixed . . . . .	.75	.50	.30	.20	.15
Metzer, novelty of 1881, reddish brown . . . . .	.75	.50	.30	.20	.15
Peacock, beautifully bloated . . . . .	.75	.50	.30	.20	.15

CINERARIA.

	Per pkt.
Hybrid, good mixed, 1/2 ounce, \$1 . . . . .	.25
" grandiflora, choicest mixed, 1,000 seeds, 75 cents . . . . .	.40
" grandiflora dwarf, choicest mixed, 1,000 seeds, 75 cents . . . . .	.40
" grandiflora kermesina, novelty 1891 . . . . .	.50
PRIMULA . . . . .	.50
Choicest double mixed, 1,000 seeds, \$1 . . . . .	.50
Sinits, fringed, the mixed, 1,000 seeds, \$1 . . . . .	.50
" extra mixed, 1,000 seeds, \$1 . . . . .	.50
" ten varieties, each, 100 seeds, 50 cents . . . . .	.50
" double fringed, mixed, 100 seeds, 50 cents . . . . .	.50
" five varieties, each . . . . .	.50

TERMS CASH. For other Seeds, Fall Bulbs, Florists' Supplies, Imported Nursery Stock, etc., write for Catalogues, if not yet received.

ADDRESS:

J. A. DEVEER,
154 East 34th Street, NEW YORK.

PANSIES.

PANSIES THAT ARE UP. No need to worry over getting the seed to come up, it is up and ready to plant when I send them.

It is not only the plants that are up, the strain is up also; up to, and a goodly number of my customers say, above any strain in the market. The price is down, considering the quality of the strain, seed as good would cost you about as much per 1000 plants. My price is \$5.00 per 1000, or in lots of 2,500 and over, \$4.50 per 1000.

SEND FOR LIST AND SHORT PAPER ON CULTURE.

PLANTS READY AUGUST 20th TO DECEMBER 1st.

SMILAX.

Plants ready July 1st and later. These will be nice and stocky, and ready to go right ahead. There is some 40,000 here; let me have a chance to fill your order.

Send to cents for samples and get my prices before ordering elsewhere.

L. B. 338.

ALBERT M. HERR, LANCASTER, PA.

PANSIES. * *

Plant your frames this fall with PANSIES that will SELL AT SIGHT. You want the BEST if you keep up with the procession. My strain cannot be surpassed for size, color, or substance of flowers. I know my stock will please, and I am prepared for a big rush.

FINE STOCKY PLANTS, once transplanted, \$5 per 1000 by express; 75c. per 100 by mail. Special prices on larger lots. Orders booked now filled in rotation, or on any date desired after August 15.

ALEX. McBRIDE,
ALPLAUS, N. Y.

Premium American Pansy Seeds,
Grown by WM. TOOLE, Pansy Specialist,
BARABOO, WISCONSIN.

In 32 separate varieties and mixtures. Price list free by mail. New Crop Now Ready. Extra choice mixed, pkt. 10c.; trade pkt. 50c.; 1/2-oz. \$2.00. Selected mixed, 1/2-oz. \$1.00; trade pkt. 50c.; 1/2-oz. \$2.00. 1/2-oz. \$1.00. Florists' mixed, pkt. 10c.; trade pkt. 50c.; 1/2-oz. \$2.00. 1/2-oz. \$1.00. Herpian pansies, pkt. 25c.; trade pkt. 50c. Trade packets contain about 100 seeds. Plants in season.

COLEUS Verschaffeltii, Gold Bedder, Gold-pots, \$20 per 1000; \$2.50 per 100. From 2 1/2 in. pots, \$10 per 1000; \$1 per 100. Large stock plants, \$15 per 100; \$4 per 10. All orders should be accompanied by money, otherwise shipped C. O. D.

JOHN RECK, Bridgeport, Conn.

ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World.
Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED. ROEMER, SEED GROWER,
QUELDINBURG, GERMANY.

PANSY SEED

of the best quality, in 25 leading varieties offered at greatly reduced prices.

HENRY METTE,

SEED GROWER AND MERCHANT.

QUELDINBURG, GERMANY.

For Trade Catalogue free on application.

Zirngiebel's
GIANT MARKET AND FANCY PANSIES

New crop seed of those superb strains now ready, in trade packets of 1,500 and 600 seeds respectively, at one dollar each.

DENYS ZIRNGIEBEL,

NEDDEHAM, MASS.

EXTRA FINE PANSY SEED.

MAMMOTH SUNBEAM STRAIN.
One of the best strains of Mammoth Pansies yet produced; very large, of perfect form and the colors. A carefully selected collection of varieties. Florists, be sure to sow. Trade pkt. 25c.; 1/2-oz. \$1.00; 1/2-oz. \$1.00. JOHN F. RUFF, Shrewstown, Pa.

Principal Toronto Hotels.

NAME.	CAPACITY.	RATE PER DAY.
Queens Hotel, <i>Headquarters.</i> 25 to 32 Front St.	300	\$3.00 to \$4.00
Rossia House, King and York Sts.	250	3.00 to 4.00
Walker House, Front and York Sts.	250	2.00 to 2.50
Palmer House, King and York Sts.	250	2.00
Arlington Hotel, King and John Sts.	200	3.00 to 4.00
St. James Hotel, 15 York St. (opp. station)	50	1.50
Albion Hotel, Market Square.	300	1.00
Elliott House, Church and Shuter Sts.	150	2.00
Hotel Metropole, King and York Sts.	75	2.00
Avondale Hotel, Simcoe and Wellington.	50	1.50
Richardson House, King and Spadina.	100	1.50
International Hotel, Front and Simcoe.	200	1.50
Black Horse Hotel, Front and George.	125	1.00
Russell House, 215 Yonge St.	50	1.50
Power House, King and Spadina.	90	1.50
Schiller House, 120 Adelaide St. E.	50	1.00
Lakeview Hotel, Parliament and Winchester.	75	1.50 (European)
Keachie's Hotel, 30 King St. W.	50	
Empress, Yonge and Gould.	100	1.00 to 1.50

The majority of the above hotels are in the business portion of the city, the center of which is about one and a half miles from the convention hall in the Horticultural Gardens. Street cars pass the doors of all of them, making communication between hotel and hall quite easy.

Members wishing to secure accommodation before hand will do well to communicate early with Mr. J. H. Dunlop, 1 McKenzie avenue, Toronto, Ont.

OUR CONVENTION SUPPLEMENT will be published with the issue of August 13, and the map and directions it will contain will, we believe, be of considerable value to those attending the meeting at Toronto. Exhibitors wishing to call special attention to their exhibits will find the supplement a very effective medium.

THE Chicago Florist Club is now making arrangements for transportation to Toronto in August, and will as usual invite members in the west and north-west to travel with them from Chicago.

ACCORDING to the census reports the aggregate capital invested in the industries of viticulture, truck farming, floriculture and seed farming is in round figures \$312,000,000.

WILL you be with us at Toronto? You will miss it if you stay away.

Surplus Stock.

I have a stock of plants consisting of GERANIUMS, COLEUS, FUCHSIAS, FARFUGIUMS, HIBISCUS, BEGONIAS, PILEAS, ETC.,

in different sized pots from thumb to 5-inch, which I will close out at a low price, as I need the room. A good opportunity for a retail florist.

A. F. PRINCE, Hincley, Ill.

SMILAX.

Nice stock well grown for immediate planting. \$1.50 per 100; \$12.00 per 1000. FRESIAS, fine, well ripened, home grown bulbs (far superior to imported), \$1.50 per 100; \$10.00 per 1000.

OXALIS (Rosa grandiflora), or Howell, finest of all for house culture, per doz. 50c; per 100, \$4.00. CYCLAMEN, Persian and Giganteum, fine bulbs and stock, \$1.50 per doz.; \$8.00 per 100.

F. A. BALLER, Bloomington, Ill.

WINTER BLOOMING ORCHIDS.

Another immense consignment of the old favorite
CATTLEYA TRIANÆ,
well known as the most useful species for cut flower purposes.

CATTLEYA SANDERIANA;
The rare and very sweet-scented
winter blooming **LYCASTE CRISTATA;**

ODONTOGLOSSUM CITROSMUM;

ODONTOGLOSSUM INSLEYI SPLENDENS;

ONCIDIUM TIGRINUM (true);

BOLLEA CŒLESTA.

All at greatly reduced prices. Plants have arrived in excellent condition. WRITE FOR PRICE LIST.

F. MAU,

P. O. Box 322.

SOUTH ORANGE, N. J.

KOSTER & CO.

See to say that their Wholesale Catalogue of

AZALEA MOLLIS,

CLEMATIS,

HARDY GENTIAN AZALEA,

PÆONIES, ETC.,

is now ready. They will be pleased to send a copy free on application.

—EARLY ORDERS SOLICITED.—

**KOSTER & CO., Nurserymen,
BOSKOOP, HOLLAND.**

CELESTY.

\$1.80 per 1000; \$7.50 per 5000.

Golden Self-Blanching, White Plume,
Giant Pascal and Boston Market.

CABBAGE, \$1.00 per 1,000.

CAULIFLOWER, \$2.75 per 1,000.

Packed to go any distance. Quality of plants unexcelled.

JOHN BLOOMFIELD,

L. B. 215. OVAL CITY, MISSOURI

CHINESE PRIMROSE SEED.

Finest colors; large flowers; fringed; all strong growing kinds; bloom thrown above the foliage. Special trade pkts. for florists, 400 seeds, price \$1. Circulars sent on application. Address
HENRY S. RUPP & SONS, Shiremanstown, Pa.

"A HIT! A PALPABLE HIT!"
We paid \$1,000 HAIL losses last week. Are you covered?
RISTS HAIL ASSOCIATION, SADDLE RIVER, N. J.

THE FAMOUS

Azalea Vervæniana.

Having made a contract with Mr. B. Maenhout van Melle, of Ghent, Belgium, to handle this beautiful variety, we can offer them by the thousands at very reasonable rates.

**HULSEBOSCH BROTHERS,
P. O. Box 3118, NEW YORK CITY.**

FINE FERNS.

PTERIS CRETICA ALBA LINEATA,

ONYCHIUM JAPONICUM,

ADIANTUM PUBESCENS,

And other varieties.

Strong plants, 2-inch pots, \$4 per 100; \$35 per 1000.

JOHN WELSH YOUNG,

FRANK STREET, GERMANTOWN, PA.

SURPLUS STOCK OF FERNS.

600 ADIANTUM CUNEATUM,

strong plants, from 1½ and 2-inch pots, at \$6.00 per 100. Cash with order.

GUST. MALMQUIST,

FAIR OAKS, MINNEAPOLIS, MINN.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

THE CHEAPEST AND BEST OF ALL.

FIR-TREE OIL INSECTIGIDE—soluble.

FOR PLANTS.—To make a solution for washing or cleansing purposes.—Half-a-pint of Fir-Tree Oil to ten gallons of water.

For Green and Black Fly, Thrip, American Blight, Woolly Aphis, etc.—Half-a-pint of the Fir-Tree Oil to two or four gallons of water, or two or three table-spoonfuls to the pint.

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In reply to Mr. Murdoch in your issue of the 2nd Inst., the glass 18x24 (not 18x24) which comparatively escaped destruction in the late hail storm here, is single thick. Mr. Gray has no double thick on the place.

My impression at the time was that the glass owing to its size simply bounced the hail off where the smaller sized glass held tight and would not give. The house of large glass is in the center of the block of houses. Years ago I had an experience similar to that we recently had here. A whole range of houses was glazed "double thick" 18x24, everybody else was smashed out and out and windows in dwelling houses and public buildings met with the same fate. After the storm I expected to find a mass of broken glass and ruin generally; guess my astonishment was broken to find that not one pane of glass was broken.

I advocate, and always will do so, "double thick" and 18x24 and no top putty. Glaze 18x12 single thick and you subject yourself to fright and nervous prostration and kindred diseases all inside of five minutes, while on the other hand you would get more light and feel comparatively safe unless a storm of bricks came along, and who in these days can wonder at anything? "Double thick" and large size for me every time Mr. Editor. JAMES FRASER.

Cincinnati.

Crawled into the Boiler.

A laughable story is told of an employee of a grower whose houses were riddled by a fall of heavy hailstones some time since.

This young man saw the storm coming up, and started to lower the ventilators. These were not worked by apparatus and he had to lower them one at a time. He was still pretty wet to the end of the house when the storm burst, and with it came a fall of hail that left only a few whole panes of glass on one side of the house. As the deafening noise of the falling stones on the glass left on his ears he darted like a deer for the potting shed. But before he had made a half dozen jumps the heavier stones came and the crashing of glass was added to the pandemonium, and stones and broken glass fell on him thick and fast. But they hardly had time to touch him, for in a moment he reached the shed, and some time afterward his feet were discovered sticking out of the boiler (it was summer time, of course,) where he was mumbering something—presumably his prayers. He was so overcome by fright that he paid no attention to invitations to come out of his place of refuge, and finally had to be pulled out. And it was finally discovered that he thought the world had come to an end. That the earth had gone to pieces and he wasn't quite sure that he was mistaken even after he had been pulled out, and found his anatomy still intact.

These "dispensations of Providence," as one florist calls them, are certainly sometimes terrifying. The tattoo of the smaller stones on a large surface of glass makes a tremendous noise, and when 5,000 or 10,000 feet of glass is smashed by the heavier ones the crash makes a noise not soon forgotten, and if you happen to be under the falling stones and glass fright is excusable. M.

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ADVERTISEMENTS

for the Supplement should be received by **August 7 at latest**, and as much earlier as possible. **Rates** same as in the body of the paper: 10 cents per agate line; page \$42.00; half page \$21.00; column \$14.00; half column \$7.00; inch \$1.40.

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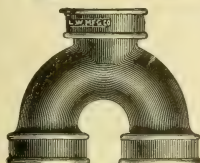
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THE Oshkosh Florists' Club, Oshkosh, Wis., has issued a premium list for its second annual chrysanthemum show and floral exhibition, to be held November 19, 11 and 12 next. Copies may be had on application to the secretary, Mrs. G. M. Steele, Oshkosh, Wis.

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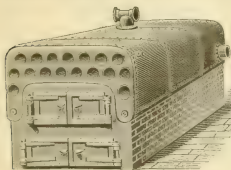
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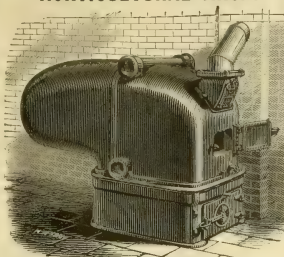
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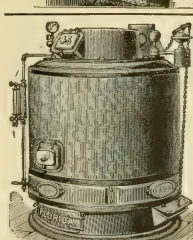
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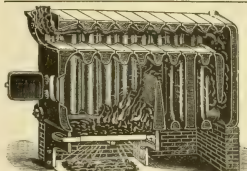


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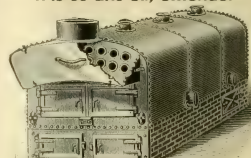
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Vol. VI.

CHICAGO AND NEW YORK, JULY 23, 1891.

No. 164.

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A Symphony in Pink.

Pink is a color which at once suggests to our minds an infinite number of tints and tones and a number of descriptive names apparently invented for the special purpose of bewildering us still further in our effort to sort them out. Perhaps the simplest method by which we may arrive at some satisfactory conclusion in the description of different pinks is one which starts at the outset with the artists' color box as a basis of operations. Here we have positive colors with positive names and the least possible variation with the colors of a given name. For instance, scarlet vermilion is always the same in color and so is carmine lake. Rose madder and the aniline color known as Rose Cathame or Geranium lake are also positive colors with little or no variation in hue and we can rely on them all to produce good pinks with more or less of an admixture of white. Now, we are not quite so certain what people mean when they speak of "shrimp pink," "Ethereal pink," "old rose" and "Magenta pink." We have an approximate idea, but nothing for which we can claim certainty. On the contrary, if I say to a brother artist that the Lilian Bird chrysanthemum possesses a perfect Rose Cathame pink in various strengths, he knows precisely what I mean and he sees the color immediately with his mind's eye—providing the latter is not color blind. Or, if I say a Vermillion pink, then my brother artist sees the color which is commonly called "shrimp pink."

Now, I would advise everyone who is interested in color and who would like to help along this idea of a "standard," to possess himself of a few artists' water colors, the moist ones in pans. They do not cost much and anybody can experiment with them to his own satisfaction, regardless of his want of knowledge in "the art." I have heard people say: "Well, you know I haven't an idea about mixing colors." Precisely. Then the only way to gain an idea is to experiment; you are sure of some result. An old time artist, it is said, when asked by a lady how he mixed his colors, replied "with brains, madam."

I think it is frequently the case that we do not know how much we can do until we try. Get a little color box and fill it with a few half pans of the common colors, viz: Chinese white, Gamboge, Chrome yellow, pale and deep, Orange Chrome, Vermillion, Rose Cathame, Carmine Lake, French Ultramarine, Prussian blue and Emerald green. There is nothing away from the standard these colors set for us; they are always the same the world over. Blunder along with your paint brush; don't be afraid of blunders; they have been the forerunners of some great discoveries. Mix and dab away and you will soon find out what makes

the green of the grass, the gold of the daffodil, the blush of the rose and the purple of sunsets, as well as the sapphire blue of the sky. But we must not go beyond our pink color today. There are innumerable pinks, as we well know, and we must study their characters.

I have before me the illustration of that beautiful bit of a basket, called "A Study in Pink and White," which appeared in the issue of the AMERICAN FLORIST for May 28 last. It is a lovely bit of work, in thorough Japanese good taste, and reflects great credit on Mr. Battles, who I believe designed it. But in point of color I conceive the effect was more beautiful than even the artistic arrangement. The pure tone of pink in the La France rose needs no word of mine in its praise, but the skill which recognized this fact and offset the dainty pink with the rush-green and peach bloom, deserves praise. Here we have a genuine symphony in pink, a hundred little tinges and tones of pink in blossoms and roses, which are well calculated to harmonize and blend perfectly. I have no doubt but what if we should throw a delicate pink light on the basket from one of those favorite umbrella lamps now in fashion we would produce a perfectly charming effect of rosy color, which would subdue the green and glow with the pink of the flowers.

In the La France rose we may recognize our carmine lake pink, but a pink purer and better than any our color box can afford. No pink rose, Mermet, Cusin, Gabriel Luizet or Gontier could look half so well with Mr. Battles' La France as the dainty blossoms he chose, which will appear all the more dainty in blushing color, under the pink light of the umbrella lamp. The truth is we must recognize the fact that another form in the peach-blow blossoms has given us additional interest in the rose. And this is something which no two varieties of roses combined can ever do, no matter how well the colors of the latter may agree.

We ought to seize every opportunity when arranging decorations for evening occasions to place our pink roses somewhere near the light—pink light, if we can obtain any. It is true that the latter is somewhat damaging to the green foliage, but in exact proportion to our loss in this direction there is a corresponding gain in the other, and our pink roses will look—well, I will say, dreamy.

Now, there are so many other pink flowers that I could say so much about that it is hard to make a choice of another illustration and then stop. I wish we could use poppies more than we do, but I fear these fragile and airy little fairies must ever prove fatal to the interests of the florist; we all know the truth of Burns' remark in Tam O'Shanter:—

"Pleasures are like poppies spread;
You seize the flower, its bloom is shed."

Yet for all that I have successfully used

the airy double vermillion pink poppy for evening decoration and it has possessed grace and beauty which no other flower it seemed to me could boast of. Try it under the subdued effect of lamp light and note its charming airy grace. I have found by experience that poppies picked in the morning hours do not last as well as those picked later in the day.

That old fashioned plant which we call "Dusty Miller" has just the right color of green to look well with our pink effects. The *Rhétic pink* (really our *Carmine lake pink*) *nasturtium*, with its perfect green leaves in company, gives us no end of opportunity in symphonies of pink, though pink of a less delicate nature than that we are familiar with in the *Mermiet* and *La France rose*. But we may obtain some beautiful effects of pink color with the *nasturtium*, some of the pink *geraniums* and the dainty little pink *Centaurea evanous*, who is in good company with our favorite "Dusty Miller."

I should say that in our arrangements of pink decorations we need follow only a few simple rules. Separate entirely one from the other flowers of similar form. Do not allow any *Rose Cathame pink* and *purplish pink flowers* to come in contact with each other. Be careful never to employ any red flower whatever in any arrangements where the dominant color is pink; white may be used always with charming effect, so may white flowers with a rosy tinge. But to combine a *Webb carnation* with a *Wilder* is death to the latter. Your pink color in other words is destroyed utterly.

To sum up the idea of a true sympathy in pink I should say this: Let us choose some one flower whose decided pink color and graceful form shall conform to our ideas and whose appropriateness to the purpose shall be unquestioned. In nine cases in ten such a flower will prove itself a *rose*. This we let everything else be absolutely subordinate except a bit of pink unless it be paler or less pronounced, not a flower larger or more showy, lest our one thought of beauty in our special flower be "side-tracked." No reds, no blues and no yellows, only the thought of the rose with its lovely blushing color. And if we can use them, an occasional help from the pink light of those charming little fairy lamps will be a great addition to the general effect. And our rose color will be all the rosier.

F. SCHUYLER MATHEWS.

Our Paris Letter.

"There is nothing in Paris more attractive than the florists' windows," is a remark one hears again and again from tourists, and it is true. A few weeks ago they were gay with heaths, pink and white, usually in baskets, the pots sunk in moss, and the whole set off by dainty pink and white ribbons; nothing was prettier or more popular. The "Paris mode" just now is to set the growing plants, full of bloom, into a round, low basket, usually with a high, round handle, arrange the colors to contrast to perfection, add a twist of ribbon around the basket and a stiff, high bow over the center or at the side, and it is complete. No foliage accords better with a flower than its own, and if it is not sufficient a pretty palm is set in. A very effective basket that I have seen repeated several times was a large *gardenia* plant with its glossy leaves, and once with but a single flower expanded; the basket was covered with a wide band of creamy satin, and a few loops were drawn up into the foliage.

The daisy time is nearly over, but for several weeks every florist's shop has had an immense pyramidal plant of the *marguerite* in full bloom beside his doorway. Lilies are gone for two months, but in August they will reappear. The common flower now in vogue is the *haciador's button*; it is shown in enormous bunches in every florist's window, in little bunches on all the flower stalls, is copied with wonderful accuracy for the ladies' hats, and gives its name to the latest color in cloth. A very pretty basket was arranged with yellow summer *chrysanthemums*, two large plants in full bloom, with a taller branch of pure yellow *calceolarias* between them, and a pink *crassula* in the foreground. The *gloxinias* have been very pretty, but are not so good for shop decoration on account of the inevitable cotton. Pink and white *peonies* are very much used with the early *gladioli*. A large basket made for presentation at a theatre was of summer flowers, *Baroness* and *Jacqueminot* roses in the lower parts, magnificent sprays of pink and white *gladioli* in the center, here and there a bit of yellow *calceolaria* and several long branches of *Spiræa palmata*, a very effective plant, with its feathery red flowers; tall loops of pink ribbon, braced inside by loops of wire, stood well up on one side of the square handle. A complete contrast to the above very artistic piece is the forget-me-not basket, which is quite the style; it is a flat, round basket about three inches high, with a tall, square handle, and is filled perfectly flat with a mass of blue like a solid bed of *turquoise*; the handle is trimmed with yellow and white pansies, or rather more gracefully with small pink *rosbuds* with their own foliage; no ribbon, and unless the roses are used not a leaf of foliage. The florists' show windows extend to the ground, and palms are a favorite decoration, with one or two brilliant flowers among them; a fine plant of *Lilium lancifolium rubrum* made a whole window beautiful in this way.

One plant whose value as a "florist's flower" we have entirely missed is the *clematis*; several florists here make a specialty of growing the finest varieties of this lovely flower in small, symmetrical plants for the market, such as *Undine*, *Edith Jackman*, *The Queen*, *Villette Paris*, *La France*; large flowering hybrids of fine colors are trained over a small trellis, forced very gently in a frame, and are wonderfully decorative. Two plants, a lavender and a rose, each with but one immense bloom, set into a wicker jardiniere, and trimmed with ribbons of lavender and white, made one of the most striking pieces I have seen. *Hydrangeas* are much used in this style of basket, as they harmonize with almost everything, or are very pretty alone. A white arrangement was composed of a background of *hydrangeas* of palest tint, longiflorum lilies, *gladioli* *The Bride*, which has its full desert of popularity here, *Lilium candidum*, and a cluster of *Begonia* roses to give a bit of color; each flower is used with its own foliage, and the whole effect is very loose and natural.

Paris is flooded with *crassulas* just now; they are a little stiff, but have the beauty of the short lived *bouvardia*, and last for days; the branches are grown of even length, and the top of the plant presents often an even surface of brilliant flowers. A very showy basket was shown yesterday made entirely of the plants in two shades of deep pink and crimson set loosely into a basket about three feet in diameter; one plant is often set in to

give brilliancy to a design in paler flowers or a jardiniere of palms and ferns, where they are most lovely. A very exaggerated style of basket was filled with two or three tree *carnation* plants with immense white flowers, the whole profusely trimmed with white gauze ribbon, yards of which were fastened to roses on the stems of the plants and on the basket.

The long, cold spring has had the effect of delaying the bedding in the parks to such an extent that many beds are only just set out, and very few are yet grown into beauty. One, however, impressed me as the most artistic bed in reds I have seen—*Begonia semperflorens rosea* and another deeper red sort, very thick, and at regular intervals among them the pointed deep red leaves of *Atkinson's cardinalis*, a dwarf border, and a sprinkling of the smallest of golden yellow *calceolarias*.

F. L. VAUGHAN.

Views on the Gardner Estate, Brookline, Mass.

Brookline is a suburb of Boston, and is one of the most beautiful as well as one of the most exclusive of the many attractive towns on the outskirts of the New England metropolis. That the estate of John L. Gardner, Esq., is a most charming spot, and that Mr. C. C. Atkinson, the gardener in charge, fully understands his business is convincingly shown by the views herewith presented. The grounds occupy an elevated position which overlooks the city of Boston and the harbor. Particular attention is paid to door decorations, hardy shrubbery and perennials occupying a most prominent place.

There are many magnificent old trees on the place. A beautiful shady path, bordered with *Narcissus poeticus* is shown in one of the illustrations. Another represents the gateway to the flower garden.

In the greenhouses are many choice specimen plants, among which are some noble azaleas which have on various occasions taken a foremost place in the exhibitions of the Massachusetts Horticultural Society. *Ericas* and flowering stove plants are also among Mr. Atkinson's special pets. Within a few years the collection of orchids has been greatly increased, and under skillful management is fast getting to be one of our notable collections.

W. J. S.

Exhibition Arrangements.

Rules and regulations are necessary, as undue advantages are liable to be taken by unscrupulous exhibitors. A suggestion is to print rules and regulations on the reverse page of entry blank, and word it to such effect that with the signature of applying exhibitor affixed, a sort of contract or obligation to respect the rules is made.

Make strong efforts towards the displays being ready, and opening of the exhibition in complete shape at advertised time. The first hours or the first day of the exhibition, the best of all in a flower show, because all is light and fresh, should not be wasted in hasty preparations. Inducements should be extended to have the crowd there on the first day, and, if necessary in getting ready, hire the hall a day earlier. The cost of one more day's rent of the hall will be well spent if it helps to give a snap and a good send-off to the show from the hour of opening. An enforced rule barring late arrivals from prize competition would no doubt also be a good measure.

In the cut flower department, and especially in the decorative effects and designs



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made of flowers, the arrangement of exhibits should be so fixed that more or less displays are replaced daily by new ones. Such will give an added freshness and life to the show that the public will appreciate, and if properly advertised as spoken of in these columns will induce the repeated attendance of many persons.

Judges and judging: I believe the majority of exhibitors at shows would agree that to men of good reputation who are actively engaged in the business should be

entrusted this responsibility. We should keep in mind that the future prosperity of our shows hinges on our efforts to-day toward securing unbiased judging upon proper standards. Amateurs, society ladies and artists no doubt would discriminate intelligently on some of the vital points, but not on so many of them as can a worker in that line, while they would hardly consider the practical features at all. Secure from a neighboring town the services of a man of sense and

reputation who is up in plants to judge the plants and cut blooms. Don't ask him, however, to judge the designs and decorations, but get a worker in flowers for that part, one who is up to all the latest doings of the day, and is fully posted.

Clubs should be prepared, through a committee or otherwise, with instructions to the judges. Standards are apt to be local, and towards which exhibitors have been working, and their effort should

meet with consideration. An exhibit class common in prize lists is puzzling to judge is that of "an original design." Definitions of the words help us little to an interpretation of meaning definite and applicable to our case. Notice these versions.

A form or use of a form or a shape for an applied purpose, that had originated in the mind of the exhibitor, and that may or may not have been shown by him before.

A design originally new to the current season, and not shown in that locality before, though not designed by the exhibitor, being, however, original in character.

An idea of borrowed origin by the exhibitor to produce a certain defined effect but applied different from anything he knew of before.

Work of similar character to the metal bells, decorative, as mentioned by Mr. Matthews on page 877, the application for a certain use being most particularly the feature of originality.

An entirely new shape or form originated in the mind of the exhibitor for this occasion.

More versions could readily be framed that would be entitled to some claim in the case. Such classes should be definitely interpreted to the judges and intending exhibitors, or left out of my list.

All ordinary vases or receptacles for holding cut flowers should be furnished to exhibitors.

All display and show cards and the distribution of advertising matter by exhibitors should be strictly controlled by the club. The prize and display cards authorized and furnished by the club might be provided freely, and with able help at hand during the show, to properly and neatly fill out or engrave the same for exhibitors. Instead of delegating it to others the secretary should personally attend to all the duties belonging to his office that he can do, as from his familiarity with the details he is fitted to readily accomplish much more than can any other.

A committee to pass on the merits of exhibits of meretricious character, the good faith of the exhibitor, etc., might oftentimes spare the judges much time and the performance of unpleasant duties.

Where a hall or exhibition committee exists, members thereof should have sweeping control of everything displayed and their acts should be decisive and final.

DANIEL B. LONG.

Buffalo, N. Y.

Blue Pansies.

Several months ago Mr. Richard Ferris did me the honor of noticing in your columns something that I had written on the subject of color, thereby helping to unravel the much tangled subject of the nomenclature of color, as all intelligent thought and discussion will help the cause.

In the last paragraph of Mr. Ferris' article he says, "Mr. Battles surprises me by the statement that to his mind vermillion was 'dull scarlet,' and that there were no blue sweet peas nor pansies." Grand blue sweet pea is a pure indigo blue, no purple about it, and Emperor William pansy is also blue."

Now a person to read Mr. Ferris' article would suppose that I had made the very foolish and sweeping assertion that in all the world there are no blue sweet peas or pansies. When I read his article, the first thing that came to my mind was the quarrel between Sarah Gamp and Betsy

Prig. Many of the readers will remember that charming bit of Dickens' wit, when these two old-school nurses have their last quarrel and Sarah says: "No, Betsy! Drink fair wotever you do!" So it occurred to me to say to Mr. Ferris: Quote fair, whatever you do. Now let us see what I did say about blue pansies and blue sweet peas.

On page 298 of the AMERICAN FLORIST, I made use of these words: "Sweet peas are described as being a 'Grand blue' and pansies as being a 'Beautiful blue.' We have seen both of these flowers with all the shades of light lavender to the darkest shade of purple, but we can not call to mind ever seeing them blue." During the winter I have handled many thousand pansy flowers, and looked at many thousands more, and am of the same opinion.

A prominent Philadelphia grower who is very much interested in color bought some seeds of the Emperor William pansy and several days ago sent me some flowers. These I sent to a number of our largest art and dry goods stores to get their opinion; from the latter I obtained also samples of ribbons that they would sell to match the pansies. Moreover, I asked a number of customers, flower lovers and flower buyers, and not in a single instance did any one call the Emperor William pansy blue; in fact, all were far more emphatic than I was in my original statement.

I thank Mr. Ferris for calling my attention to the Emperor William. I should be very much obliged to him if he would name a variety of violets that he considers blue, and would take pleasure in putting them to the same test. Any knowledge I may possess of color, I have sought after and have gladly received information from all sources at my command. In the absence of any standard nomenclature, I have always strived to conform to the popular opinion of those dealing in, handling or using colors.

H. H. BATTLES.

Celsias.

The celsias are members of the mullein family. Some of them are useful plants for greenhouse decoration, and they are rather uncommon in cultivation. *C. Areturus* and *C. cretica* are the best species. They are natives of Crete, or Candia, an extensive island to the south of Greece. *C. Areturus* was introduced in 1780, and *C. cretica* nearly thirty years earlier. The former is a plant of shrubby habit, from four to five feet high, with dark green oblong leaves, the blades of which are three or four inches long, the petioles half that length, and the margins deeply notched. The flowers are an inch and a half in diameter, of a deep yellow color, with brownish marks and hairs about the base, and borne in long terminal racemes, on pedicels an inch in length.

This species bears a strong resemblance to *C. cretica*, for which it is often mistaken in cultivation. The latter plant, however, is much larger in every respect, often from six to eight feet high, and inclined to branch nearer the top of the stem than *C. Areturus*. The flowers also exhibit other differences. They are almost sessile, that is, without individual stems or pedicels, sweetly fragrant, and the lower half of each is of a paler yellow color than that above.

Both plants are of biennial duration, and succeed admirably under the same treatment. The seeds should be sown in August and September to obtain plants that will give a succession of bloom during the following spring and summer, and

in winter for a supply to plant in the open garden and flower late in summer and early in autumn. Sow in pots or pans containing loam, leaf mold and sand; an equal portion of each in mixture. Those sown in winter should be placed in a warm greenhouse until they germinate, and grown on in small pots. Turn them into a cold frame when danger of frost is over, finally transplanting them in the open early in June. The seeds for spring and summer flowering plants may be raised in a covered cold frame, transferring the seedlings to pots when large enough. They will require potting two or three times, the last shift being into 6-inch pots, and the protection of a warm, sunny greenhouse when frost makes its appearance. Celsias grown in pots require good soil, similar to that used for seedlings, but coarser. They make rank growth in very rich soil, and flower best in that of medium quality.

Cambridge, Mass.

M. BARKER.

The Silva of North America.

By Prof. C. S. Sargent. Houghton, Mifflin & Co. Two volumes have now appeared, ten more are to follow. The price of each is \$25.

In this magnificent work it is the purpose of Prof. Sargent to illustrate and describe every kind of tree indigenous to North America, north of Mexico, and of which there are now known 422 species and several varieties. He styles as trees all woody plants that rise from the ground with a single stem, and designates as shrubs the woody plants that habitually branch at the ground into several stems. The volumes are large quarto.

In the arrangement of the silva the sequence of orders and genera is the same as that given in Bentham and Hooker's *Genera Plantarum*. And as regards the nomenclature of the plants he tells us "I have adopted the method which imposes upon a plant the oldest generic name applied to it by Linnaeus in the first edition of the *Genera Plantarum* published in 1757, or by any subsequent author, and the oldest specific name used by Linnaeus in the first edition of the *Species Plantarum* published in 1753, or by any subsequent author." This has given rise to some radical changes in the names of some of our common trees.

The first volume is filled up with the thirteen orders running from Magnoliaceae to Liliaceae; and thirty-four species and one or two varieties are dealt with in detail. Among all of these, however, the magnolias, lindens and hollies are the trees that concern us most. The first plant described is *Magnolia grandiflora*, and we are told that from about on it must be called *M. fedida*! The yellow flowering cucumber tree, *M. cordata*, is given as a variety of *M. acuminata* and we are informed that it is not now known to exist in a wild state. We also learn that the tulip tree (identical with our native species) is too a native of China.

Both gordanias are figured. The loblolly bay (*G. lasianthus*) sometimes becomes a tree 60 to 70 feet high. What a splendid sight such a specimen must be in late summer when in bloom. *G. Altamaha* is the Frankia and what we used to call *G. pubescens*. Although found wild in tolerable abundance about a hundred years ago, it is not now known to exist in a wild state.

As regards holly trees we learn that the evergreen one (*Ilex opaca*) which is found in moist land in the southern states, grows



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in dry gravelly land in the north. And among deciduous hollies *Ilex monticola*, because of its large globular scarlet fruit and ample foliage is recommended as "the most ornamental of the deciduous hollies and a desirable garden plant."

Vol. II. is devoted to the trees belonging to the orders *Cyrtillaceæ*, *Celastraceæ*, *Rhamnaceæ* and *Sapindaceæ*. Of these seventeen genera and twenty-nine species and a few varieties are given. Among all of these, however, perhaps the *Euonymus*, buckeyes, and maples

are the trees that will interest us most. *Euonymus* must from this on be spelled *Evonymus*. *Æsculus glabra*, *Æ. octandra* and *Æ. Californica* are the three arborescent species of the country; the common horse chestnut, *Æ. Hippocastanum*, is a native of the mountains of Greece. Half the volume is devoted to the maples, and a vast amount of most interesting information is given about them, and here again the nomenclature gets a merciless shaking up. The sugar or rock maple is generally known as *Acer*

saccharinum, but Prof. Sargent rejects this name and calls it *Acer barbatum*, and applies the name *A. saccharinum* to the white or soft maple which we have always known as *A. dasycarpum*. It will be many a day before our nurserymen can reconcile themselves to these radical changes, but adopt them eventually they must, for the *SILVA* is the authority. *Acer Negundo* is the accepted name of the box elder. In German nurseries what is sold as *Negundo Californicum* is not the Californian variety at all but a mid-

continental variety of the common box elder with pale purple glaucous branchlets; it is known in our nurseries as the purplestemmed box elder. The true Acer Negundo var. Californicum has constantly trifoliate leaves, darker bark than the type, pale pubescent branchlets and fruit, leaflets often lobed and always densely coated on the under side with pale pubescence.

Many tropical trees, common in the West Indies and Central America, and which reach up into Florida, Texas and California, are also necessarily included in the *Silva*. The plates are full page and the drawings from life. They illustrate young wood, foliage, flowers and fruit, and analysis of the flowers and fruit have been prepared with exceeding great care and precision. W. F.



Disa Grandiflora.

This is undoubtedly the most showy of all the terrestrial orchids, and when in flower it is a noble object. The main trouble is that it is considered to be a rather difficult plant to manage, but the plant is all right, and in most cases the treatment that it receives is not suited to the requirements of this plant. It is a native of the high lands of South Africa, and its natural habitat is beside streams and water pools, where it has plenty of water and shade and by keeping it under the same conditions when in cultivation it does well and grows freely.

I had charge of a number of disas some years ago, and under the following treatment they did well. They were grown in a camellia house, with a night temperature of 45°, and were never allowed to get dry. When in full growth they were syringed two or three times a day and the atmosphere of the house kept moist.

When in growth it is a good plan to stand the pots in a pan of water until it is done flowering, then it should be kept much drier until growth commences, when it should be repotted, but at no time should it be kept dry.

The time to repot is as soon as the roots begin to grow, generally in February, and the best soil for them consists of rich, fibrous loam, fibrous peat, and sharp sand, with a few lumps of well decayed cow manure in it. Fill the pots about one-third full of drainage, and cover the surface of the soil with living sphagnum. The main cause of failure in its cultivation appears to be lack of water; if the drainage is good it cannot get too much moisture when it is growing. It is imperative to keep it shaded and syringed overhead several times a day, for if it is neglected in this respect it soon becomes a prey to thrip and red spider.

In habit it is lily-like, and the stems are erect, covered with bright green leaves, and from eighteen inches to two feet in height, bearing from two to six flowers, which are large, with bright scarlet sepals and petals tipped white and green, pale yellow inside. To be successful with it keep it cool, give it plenty of air, shade, and water, and keep clean of thrip and red spider. JAMES S. TAPLIN.

Maywood, N. J.

Some Useful Climbers.

Quite a considerable number of plants could be included under such a heading as this, but the object in this case is rather to briefly note a few that may be readily grown and used to advantage in various arrangements of plants and flowers. Such uses will soon suggest themselves to the decorator if he be supplied with some of this material, and will enable him to give a pleasing variety to his work without the expenditure of any extra capital.

Among such plants *Paulinia thalictifolia* is one of the prettiest, having bright green pinnate leaves that are nearly triangular in outline, and from four to ten inches in length, the leaflets being very small, and when developing are frequently pinkish, the whole effect being light and graceful and bearing some resemblance to the fronds of *Maidenhair ferns*.

This plant does best in a warm house and moist atmosphere, and may either be grown as a climber or pinched back occasionally in order to give it bush form.

Paulinia thalictifolia is propagated by means of cuttings, the latter rooting readily when kept rather warm and close for a time, and if nicely grown in three or four-inch pots would soon find a market.

Another pretty little vine is *Campsidium filicifolium*, which, like the preceding, was introduced about twenty years ago. This *Campsidium* is of twining habit and has narrow pinnate leaves of dark green color, and when large produces slowly orange flowers of tubular form, something like those of the *bignonia*. It is of free and rapid growth, and cuttings of young wood root quickly.

Some of the *cissus* also make useful subjects, especially the well known *C. discolor*, which, though old, is one of the handsomest climbers in cultivation today. Cut sprays of this species may be used to advantage where the stems can be placed in water, and like most other foliage when cut is improved in lasting quality by total immersion in water for some time before being used.

Another pretty species of this genus is *C. Lindenii*, this being entirely distinct from the foregoing, and has large, cordate leaves, the ground color of which is light green, this being blotched with grayish white.

C. Lindenii, like its congener, is easily grown in moderate heat, and its stems are easily propagated. Still another showy climber is that best known under its old name of *C. porphyrophyllus*, though now placed among the *Pipers*.

This plant is of strong growth and produces rounded, heart shaped leaves of bronzy green, these being perfectly spotted with pink, the color being brightest on the young foliage. *C. porphyrophyllus* looks best when growing on a wall, and to which it will cling like ivy, or when rambling over rockwork it is equally at home.

Passiflora trifasciata is another addition to our list, though by no means a new one, having been cultivated more or less for nearly twenty-five years. It has the trilobed leaves common to the genus, these being dark green in color and marked down the center with a broad band of reddish coloring, while the under side of the leaves is purplish. *P. trifasciata* may be multiplied by cuttings almost as readily as a *cissus* and if kept growing on rapidly is remarkably pretty.

Both the *cissus* and the last named soon become disfigured if they are allowed to become infested with mealy bug, and as it is not easy to clean them after they get

in such condition the best plan is to avoid the contingency by propagating clean young stock from time to time.

Echites rubro-virens and *E. picta* are also pretty climbers and of moderate growth, the first being the most showy, its opposite, entire leaves being spotted and netted with red and sometimes yellow on a bright green ground. *E. picta* is not so striking, its variegation consisting of an irregular band of white down the center of the leaf.

These also are warm house subjects, and grow best in moderate shade and abundant moisture.

In conclusion, the very useful *Ficus repens* (or *stipulata*) should not be forgotten, and for certain purposes the variety *minima* may be even more suitable than the type, its foliage being smaller and neater, and, of course, this can be readily reproduced in quantity by means of cuttings.

I have also tried *Ficus repens* as an outdoor climber, though it has not proved an entire success in that capacity, as under that treatment its growth was too slow. Holmesburg, Pa. W. H. TAPLIN.



Watering roses in summer is of more importance than many suppose, particularly when first planted; if they are kept short of water at the roots during very hot weather the plants will certainly suffer considerably, but to keep the whole body of soil in the benches wet is very likely to cause it to get sour and unfavorable to root action. To avoid this it is preferable to press the soil firm immediately around each plant at the time of planting, thus forming a hollow dish to hold the water required for each plant, leaving the balance of the soil loose and somewhat in ridges till active root action takes place and in reality till the roots are prepared to spread out all through the soil. This has a tendency to throw all the water into the hollows where it will do the most good and keep the balance of the soil fairly dry and healthy. Then after the first batch of weeds have all been removed and the roses have started new roots spreading in all directions through the soil the whole can be pressed fairly solid (we usually tread it with the feet in the center beds and beat it down with a brick or block of wood on the side benches), then with a small blunt toothed rake scratch it all over evenly and put on a very thin mulching of well rotted cow manure. This will hold the water just where it falls and keep the soil moist enough without flooding it with water, or in other words will keep the plants in a healthy growing state by syringing them well with the hose. This is the only watering ever necessary, if rightfully applied, till the plants become very large toward spring.

If plants are overwatered in the early stage of their growth it will make them produce a weak, soft growth which is unnatural to them, on the other hand if they do not get sufficient water at the roots they will hardly make any growth at all and what they do make will be



ORCHIDS IN THE CONSERVATORY OF JOHN L. GARDNER, ESQ., BROOKLINE, MASS.

small wiry wood which will not produce a bud for a long time.

Another feature in watering is of more importance than many suppose, which is tepid or warmed water. A great many growers, particularly those having hydrant water for use, claim that it makes no perceptible difference whether the water be at 40° or 60° when applied, but it is just as reasonable to take a man when he is hot in the middle of summer and pour a pail full of cold water over him as it is to pour a lot of very cold water over a house of plants which are growing in a mean temperature of 80°, which is about what the temperature of a greenhouse averages for several months in summer. Anyone can demonstrate this for himself by watering for two or three months one house with water say at 65° and another with cold water such as comes from a well.

Water such as is usually supplied to cities through hydrants in summer is not very often below 58° to 60°, as the reservoirs are as a rule exposed to the sun's influence, but in winter such water is often very much too cold for the general health of the plants to which it is applied.

In pressing the soil firm about the roots of the plants as above described, it should always be done when the soil is fairly dry, otherwise it will be very apt to become very hard and cake, and consequently become unfavorable to good root action. We usually withhold water in any shape for a day before doing it, and the heavier the soil is the more important to have it dry before pounding.

J. N. MAY.

Chicago.

The beach work at Lincoln Park is now progressing rapidly. It is a monumental job and many difficulties had to be overcome. The plan is to build over a mile of new beach a short distance out in the lake and parallel with the shore, the water space between the new and old beaches to be used as a rowing course. The new beach consists of sand dredged out of the lake and thrown up in a long ridge, the side toward the lake being paved with limestone and granite blocks, so that it presents the appearance of a stone-paved street sloping toward the surface of the water. At the top of the stone beach is a broad promenade of cement work, back of which is a roadway 45 feet wide, and the bank which slopes toward the canal or rowing course, is seeded down to grass, and planted with trees and shrubs, each being set in a pocket of good soil. This has been done as far as the work has already progressed and will be continued throughout its entire length. The rowing course will be a mile and a quarter long. This enormous work will cost over a million of dollars.

Last Friday afternoon lightning struck the big chimney at D. B. Fuller's establishment at Downer's Grove, and caused damage that it will cost \$600 to repair.

At Park Ridge E. Weinhoeber & Co. have added three new houses, one 125x18 and two 125x10 each. Mr. Weinhoeber finds the Duchess of Albany a very beautiful and fast selling rose, but says that with him it has not been profitable to grow.

Mr. W. J. Smyth, for several years past with E. Weinhoeber & Co., will open a store on his own account the coming fall.

The Grant monument at Lincoln Park is nearing completion. The figure is of bronze, of heroic size, and represents the great general as he appeared on the field, in the saddle. The monument will be unveiled in October.

Mr. J. T. Anthony is well along on the road to recovery from the effects of the surgical operation performed July 8. He was out of the house for the first time last Saturday, when he enjoyed a drive through the parks. He is looking well and bids fair to soon be stronger and enjoy better health generally than for many years past.

There is a project on foot to add a botanical section to the Horticultural Society of Chicago, and to invite the botanists of the city to join. There are about twenty botanists in the city and they have no organization as yet.

Mr. H. H. Hindshaw, of the Hort. Society, is an enthusiastic collector of fossil plants. He has a very large and interesting collection of specimens, quite a number of which have never yet been described.

Among recent visitors to the city were Messrs. John Thorpe, Pearl River, N. Y.; E. G. Hill, Richmond, Ind.; A. C. Brown, Springfield, Ill.; M. A. Hunt, Terre Haute, Ind.; D. B. Long, Buffalo.

The recent ball game was such a hilarious affair that it has been decided to repeat the experience at an early date—as soon as all those who participated in the last one have been discharged from

the hospital. The exact date of the great event has not yet been decided upon.

At a called meeting of the Florist Club held last Friday evening, Mr. James D. Reynolds introduced the following resolution which was adopted by a unanimous vote:

WHEREAS, the Director-General has announced that he will not at the present time appoint a Chief for the Bureau of Horticulture in the World's Columbian Exposition, but that he fully appreciates the paramount importance of organizing the department of Horticulture without further delay. And

WHEREAS, we recognize in John Thorpe the man pre-eminently fitted, both by natural ability and wide acquaintance, for the organizing and perfecting of the department. Therefore be it Resolved, That the Chicago Florist Club most heartily endorse Mr. Thorpe, and urge upon Director General Davis the propriety of his immediate appointment for the head of the division of Horticulture.

A committee of three was appointed to present the resolutions to the Director-General, and to urge upon him the necessity of more outdoor space than provided by the present plans.

A standing committee of five, consisting of Messrs. Vaughan, McAdams, Weinhoeber, Lane and Bentley, was also appointed, to act for the club upon matters connected with the Fair that might arise between meetings and demand immediate action.

It is believed that the long delay in the organization, of the floricultural division at least, is at an end, and that work will now go rapidly forward.

At the last meeting of the Florist Club Mr. J. C. Vaughan exhibited a flower spike of Madame Crozy canna bearing eight fine flowers, and a very pretty specimen of *Dracaena fragrans* Lindenii.

Business continues dull; very dull, indeed. Nothing else can be expected at this season of the year. Of course, still some of the retailers entertained a lingering hope that this season might prove an exception, which hope was rudely dashed to pieces. Despite the very dull season the very few really good roses that appear in the market find a ready sale at fairly good prices. Business or not, the retailer is compelled to carry some stock.

Sweet pens are a perfect glut in the market and can be bought for \$1 a thousand. The varieties known as Nellie James, Blanche Ferry or Painted Lady sell the best. By the way, can anyone tell the difference between the three? White and lavender (Butterfly) come next in order of importance. There is very little demand for reds or purples.

Gladiolus and *L. nuratum* are making their appearance, but meet with a very limited demand.

For some reason no pink pond lilies are seen. There are constant inquiries for this flower, but none can be had in our market. What has become of our friends over in Grand Haven, Mich., who sent us some good flowers last season?

Niles Center boasts of producing more fine flowers to the square foot than any other suburb of Chicago. It also takes great pride in a base ball nine composed of florists. This nine has challenged Chicago, and the local florists have accepted an invitation to play a game next week, at the Niles Center grounds. The struggle will undoubtedly be an interesting one. One of the Niles Center boys has asserted that the strength of the members of the Chicago nine lay in their jaw, and the latter propose to resent this imputation by polishing off their opponents in a way to surprise them. We will know all about it after the post mortem has been held.

Boston.

From present indications the delegation from Boston to Toronto will be much larger than that to any previous convention. A good many ladies will be in the party.

Very low rates have been secured over the Canadian Pacific R. R. and no certificates will be required in order to secure reduced fares. The route is over the southern division of the Boston & Maine (formerly the Boston & Lowell) through Lowell, Nashua, Manchester and Concord to Newport, Vt., and thence by Canadian Pacific R. R. via Montreal, where it is expected that the Montreal delegation will join the Boston party and accompany them to Toronto. The route lies through the most picturesque regions of New Hampshire and Vermont, and much pleasure is anticipated from this portion of the journey. On account of the meeting of the Nomenclature Committee at Toronto on Monday, August 17, it will be necessary for some of the party to leave Boston at 7:15 on Saturday evening, arriving at Montreal Sunday morning and leaving there on Sunday evening, so as to reach Toronto early Monday morning. The main party will leave Boston at 9 A. M. Monday, August 17, going through without stop, and arriving at Toronto early Tuesday morning, the opening day of the convention. The first party will have a day to spend in the quaint and interesting city of Montreal. The second party will have a day-light trip through New Hampshire. Persons wishing to join either party are requested to communicate as early as possible with Wm. J. Stewart, 67 Bromfield street, Boston, who will arrange for sleeping car accommodations, and from whom tickets should be procured.

The crack bowlers of the Gardeners' and Florists' Club of Boston have commenced practice at the Allen gymnasium, where the famous tournament of 1890 took place, and judging from the interest displayed they do not propose to give their opponents a "walk-over."

The cut flower market continues dull, the seaside and summer resort trade not having materialized up to date.

W. J. S.

Toronto.

Toronto has been having a "big time" this week; 20,000 strangers have been in the city and a lot more would have been here but for insufficient train accommodation. It is said that the National Education Association never had so successful a meeting. Yesterday 10,000 people, present to hear the public school children, etc. sing, went fairly "off their heads" over American and British patriotic songs. No doubt every member of the S. A. F. will see accounts of it in his local paper, as there are teachers here from all over the continent.

The Florists' Convention here promises to be just as much of a success in its way; every one of the local committees is working with a will which is bound to bring good results. The Gardeners' and Florists' Club hopes to see every member of the S. A. F. in this city during the convention in August.

Mr. Thos. Manton continues to receive applications for space for trade exhibits of all kinds. Intending exhibitors should apply early.

Circulars have been sent to all secretaries of clubs whose addresses could be obtained, asking them to bring before their respective clubs the matter of elect-

ing delegates for the meeting on the Tuesday of convention week. It is hoped that a large number will be present, as much good and useful work may be done.

Next week (22nd and 23rd) the annual flower show of the Toronto Electoral District Society will be held and there is every indication of its being one of the finest shows ever held here. Mr. J. P. Edwards, the energetic secretary, is introducing some new features; judging by points is to have a trial; plants will be stood on the floor instead of on benches, as was done formerly. E.

Buffalo.

The usual summer solstice has its effect in the annual dullness of trade. The leading retail places of business now close at 6 P. M.

J. H. Rebstock has broken ground for two houses, 25x100 feet each on Elmwood avenue, near Utica street; a new locality for greenhouses, and being at the center of a populous district, it should meet with success as a retail establishment.

William Scott furnished a variety of warfare implements and accoutrements done up in flowers, such as mounted cannons, tent, drum, mortar, and the like, for gracing the tables in Music Hall on the Fourth, at a citizens' banquet tendered the Society of the Army of the Potomac during their annual celebration and convention held in this city. Incidental to this occasion a vast display of the national colors was made from end to end of the principal streets. On such occasions it would behoove the craft to have an eye open for business beforehand and induce the use of nature's greens, at least in part, in such displays. The prices paid out here and there for the mere putting up and loan of the material used so monotonously would be ample remuneration to us for more telling floral effects combined with flags and such. You owe a duty to yourselves next time, boys.

Daniel B. Long's window display now regularly consists of a large shallow pan filled with pink and white pond lilies and the surrounding space filled with wild fern clumps bedded in bright green moss, which makes a fine setting for vases of flowers, etc. The combined effect of all on bright mornings is refreshing to a marked degree and catches the eyes of many flower lovers.

Everyone that ever goes away at all is going to the Toronto convention, and why shouldn't they? A recent visit there demonstrates beyond peradventure that the Toronto boys are as alive and up and doing in the interests of the occasion and that a right royal British-American welcome will be extended to all, with a new diversion ready for each leisure hour. There is some talk of closing stores for one day here, and thus giving employees and all a chance to go.

Philip Breitmeyer, of Detroit, paid this city a hasty visit last week. James Galvin, of Newport, R. I., is paying Buffalo a visit.

Prof. J. F. Cowell will attend the teachers' convention in Toronto this week. Facing so much sweet learning quite necessitates a body guard, so where could one more reliable be found than our own and only Great Scott, who will accompany him.

The Florist club has placed the details of arranging for the coming chrysanthemum show into the hands of the managing committee, with power. At a recent meeting of this committee, William Scott, J. F. Cowell and Daniel B. Long were

made a committee on subscription. J. F. Cowell, C. H. Keitsch, W. A. Adams, and J. H. Rebstock were appointed a committee to get up rules and regulations and spread prizes on the former issued premium list. The dates for the show have been fixed for November 12, 13, and 14, and Music Hall has been engaged for the purpose. Considerable enthusiasm is manifest, so the prospects of a successful show are favorable. L. B. D.

Philadelphia.

The coming convention seems to be the uppermost thought in the minds of most florists about here, and the question, "You're going, arn't you?" is often heard. Some of our bowlers expect to be there, and have great expectations.

August Lutz has torn down three small houses, and is building two larger ones to replace them.

Mr. Walter Coles has decided to settle in Kokomo, Ind., and started with his family and household goods for his new home a few days ago. He will be about 100 miles from Chicago, and expects to do considerable business in that market, as he is favorably located for shipping. We wish him success.

A few of the florists, under the guidance of Commodore John Westcott, will soon take their annual cruise on the waters of Barnegat Bay. A few of the trade from New York and Brooklyn are expected and some very large fish will no doubt be hooked, if not landed.

H. H. Bayersdorfer returned home from Europe July 15, where he has been stocking up for fall trade.

The return game of ball between the Dreers and Craigs was played in the rain Saturday last. The game was won by the Craigs. Score, 7 to 1. W.

OBITUARY.

ALEXANDER FRASER, aged about 60 years, a well known citizen of Baltimore and prominent among the florists and gardeners of Maryland, died July 15. Mr. Fraser had been troubled for a long time with a tumor on his shoulder. A few days before his death he went to the hospital to have it removed. His physician had advised him to submit to the operation, as to allow the tumor to remain was certain death. The removal of the tumor was also, he was told, attended with great danger. The tumor was removed, but it was found that the roots had penetrated to vital parts, and all efforts to save him were futile.

Mr. Fraser was born in Scotland. He came to this country at an early age and entered the employ of Mr. Robert Buist, of Philadelphia. He married a Scotch lady in Philadelphia and then went South, where he remained until 1861, when he returned to Maryland and took charge of the greenhouses of Mr. Harris, a gentleman who then lived at Waverly. Afterwards he became gardener and florist for Mr. John Ridgely, of Hampton. About twenty years ago he was engaged by Mr. W. T. Walters to take charge of his gardens and greenhouses at "St. Mary's," Woodburn avenue, east of Govanstown, where he has since resided. He was three times married. He leaves a widow and three children in comfortable circumstances. Mr. Fraser was reputed to be the best grape grower in Maryland. His excellent productions of this fruit on Mr. Walters' place have won the admiration of leading gardeners of this and other states. He

always took the first prize at every exhibition of the fruit he participated in. As a florist he is said to have had scarcely a peer in Maryland. He was very popular among the florists of Baltimore city and county.

News Notes.

MR. ALBURN, MASS.—Mr. H. P. Jenkins, formerly of Montreal, has been located here since May 1. He has the greenhouses on Coolidge avenue formerly owned by Mr. Treat.

SADDLE RIVER, N. J.—Spring sales of bedding plants were one-third larger than previous years. Good geraniums in 4-inch pots retailed at \$1.50 a dozen. Supply not equal to demand.

THE Georgia State Horticultural Society will hold its annual meeting at Quitman July 29 and 30. P. J. Berckmans of Augusta, is president and T. L. Kinsey of Savannah, is secretary.

KOKOMO, IND.—W. W. Coles, formerly of Lansdowne, Pa., has located at this point, and will at once begin the erection of a range of greenhouses. He will grow flowers for the Chicago market.

INDIANAPOLIS.—At the coming chrysanthemum show it is expected that silver medals will be offered for the finest display of orchids. Mr. Wm. G. Bertermann is expected to return from Germany the latter part of August.

BROOKLYN, N. Y.—Mr. Richard Metcalf sailed on Wednesday, July 15, on the steamship City of Berlin for Europe. He will visit all the leading florists of England, Germany and France, expecting to return sometime in September.

PORTLAND, OREGON.—The quarterly meeting of the State Horticultural Society was held here July 14 and 15. Among the matters discussed was the subject of an exhibition of the horticultural products of this state at Chicago in 1893.

PROVIDENCE, R. I.—John A. Macrae has purchased the establishment on Smith street formerly owned and conducted by F. Macrae, and will continue the business there. The latter gentleman has started a new place on the same street.

GREENVILLE, O.—Spring plant trade was at least 25 per cent. larger than last year. Geraniums in 4-inch pots retailed at \$1.50 a dozen. There was an overstock of geraniums and clematis. More call for begonias, vase work and window boxes.

SPRINGFIELD, MASS.—Mr. H. Grant cut 80,000 carnations from two houses 22x101 each, from October 1 to July 1. The result of hail storm did considerable damage to the glass of the Mielles Horticultural Co., of this city, and to that of Dexter Snow at Chicopee.

BAY CITY, MICH.—Through the influence of the Bay County Horticultural Society there will be offered for floral exhibits at the Agricultural Fair to be held September 15 to 18, premiums to the amount of \$100. The floral exhibits will be under the superintendence of a committee from the Horticultural Society.

SAN FRANCISCO.—At the last meeting of the California State Floral Society the committee on the floral exhibit at the World's Fair reported that they would soon confer with the commissioners to the Fair and would ask for \$25,000 to defray

the expense of collecting and exhibiting at the Fair, plants grown out of doors in California, which owing to climatic conditions would have to be housed in the east.

ST. PAUL, MINN.—The summer meeting of the Minnesota State Horticultural Society was held July 10 at the State Experimental Farm near St. Anthony Park. There was a very interesting programme and the attendance was large. At the exhibition held at the same time premiums were offered for collection of cut flowers, collection of cut roses, pansies, carnations, floral design and hand bouquet. E. Nages & Co., of Minneapolis, captured first premium in each class, except that of roses, which last went to Ida C. Sewall, of St. Anthony Park.

SUMMIT, N. J.—The New Jersey Social Florist Club have recently received a very fine addition to their library, namely, "Ridpath's History of the World," in three large volumes of 700 pages each, beautifully bound, from Mr. H. H. Battles, of Philadelphia, which the club begs to acknowledge with their best thanks to the generous donor. Mr. Battles takes great interest in flowers and everything appertaining thereto, and, although always a very busy man, yet he finds time to think of the young men growing up in our business, as the above will testify. His clear, lucid articles in the FLORIST are full of interest and instruction to all, more particularly to the members of the New Jersey Social Florist Club, and we earnestly wish him every success. A kindly greeting awaits him whenever he can afford the time to visit our club.

LONDON, ONT.—November 10, 11 and 12 are the dates decided upon for the chrysanthemum show of the Forest City Florists' and Gardeners' Society. The exhibition will be held in the city hall. The indications are that the show will be a success this year, as the growers are taking more active interest, and already the public is evincing an interest not before felt, thanks to the local press. From present appearances roses and carnations are going to be plenty next winter, as nearly all are making extensive preparations, and fully double the amount will be planted. Notwithstanding the unfavorable weather business has been rather above the average.

Names and Addresses of Chairmen of Committees of Toronto Gardeners' and Florists' Club for S. A. F. Convention, August, 1891.

Reception Committee—Mr. John Chambers, Superintendent Parks and Gardens, St. Lawrence's Hall, Toronto, Ont.

Trade Exhibit Committee—Mr. Thomas Manton, florist, Eglinton, Ont.

Entertainment Committee—Mr. W. J. Laing, 401 Huron street, Toronto, Ont. Ladies' Committee—Mrs. Fraser, florist, Spadina Crescent, Toronto, Ont.

Introduction Committee—Mr. F. G. Foster, florist, Hamilton, Ont.

Decoration Committee—Mr. C. Arnold, florist, 521 Queen street, W., Toronto, Ont.

Finance Committee—Mr. J. H. Dunlop, florist, corner of Bloor street and McKenzie avenue, Toronto, Ont.

Printing and Bere Committee—Mr. S. E. Briggs, of the Steele Brothers Co., corner of Front and Jarvis streets, Toronto, Ont.

Bureau of Information—Mr. George Vair, care Sir D. S. McPherson's Chestnut Park, Toronto, Ont.

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Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.July 22-23, Toronto, Ont.—Flower
show Toronto Electoral District Agricultural
Society. J. P. Edwards, Sec'y, 146
Wellington St. West.September 1-4, Boston.—Annual exhibi-
tion of plants and flowers Mass. Hort.
Society. Robert Manning, Sec'y, Horti-
cultural Hall, Tremont St.September 2-3, Galt, Ont.—Fall exhibi-
tion Galt Horticultural Society. Thomas
Vair, Sec'y.September 8-10, Hartford, Conn.—Fall
exhibition Hartford County Hort. Soc-
iety. Edwin A. Taylor, Sec'y, P. O. box
1015.September 15-17, Boston.—Annual exhibi-
tion of fruits and vegetables, Mass.
Hort. Society. Robert Manning, Sec'y,
Horticultural Hall, Tremont St.November 2-7, Louisville, Ky.—Chrys-
anthemum show Louisville Florists.November 2-8, New York.—Chrysanthem-
um show Madison Square Garden. J.
W. Morrissey, Sec'y, Madison Square
Garden.November 2-5, Hartford, Conn.—Chrys-
anthemum show Hartford County Hort.
Society. Edwin A. Taylor, Sec'y, P. O.
box 1015.November 3-6, Boston.—Chrysanthem-
um show Mass. Hort. Society. Robert
Manning, Sec'y, Horticultural Hall, Trem-
ont St.November 3-6, Milwaukee, Wis.—
Chrysanthemum show Wisconsin Florists'
and Gardeners' Club. W. H. Ellis,
Sec'y, 133 Mason St., Milwaukee.November 3-7, Detroit, Mich.—Chrys-
anthemum show Detroit Florists. Robert
Flowerday, Sec'y, 460 John R. street.November 4-6, Providence, R. I.—Chrys-
anthemum show Rhode Island Hort.
Society. C. W. Smith, Sec'y, 55 West-
minster St.November 4-6, Wooster, O.—Exhibi-
tion Wooster Floral Club. W. A. Porter,
Sec'y.November 5-7, Erie, Pa.—Chrysanthem-
um show Erie Chrysanthemum Club.
H. Tong, Sec'y.November 5-11, Bay City, Mich.—
Chrysanthemum show Bay County Hort.
Society. T. J. Cooper, Sec'y, 811 North
Water street.November 10-12, Pittsburg.—Chrysanthem-
um show Pittsburg and Allegheny
Florists' and Gardeners' Club. G. Osterle,
Sec'y, 508 Smithfield St., Pittsburg.November 10-12, Newport, R. I.—Chrys-
anthemum exhibition Newport Horti-
cultural Society. James Galvin, Sec'y.November 10-12, Toronto, Ont.—
Chrysanthemum show Toronto Garden-
ers' and Florists' Club. A. H. Ewing,
Sec'y, Normal School, Toronto.November 10-12, New Bedford, Mass.—
Chrysanthemum show New Bedford Gar-deners' and Florists' Club. Geo. C. Bliss,
Sec'y, 34 Arnold St.November 10-12, Washington, D. C.—
Chrysanthemum show Washington Florists'
Club. Eugene Cadmus, Sec'y, 1419
R St. N. W.November 10-12, London, Ont.—Chrys-
anthemum exhibition Forest City Florists'
and Gardeners' Society. Wm. Gam-
mage, Sec'y, P. O. box 155.November 10-12, Oshkosh, Wis.—
Chrysanthemum show Oshkosh Florists'
Club. Mrs. G. M. Steele, Sec'y.November 10-13, Philadelphia.—Chrys-
anthemum show Penna. Hort. Society.
D. D. L. Farson, Sec'y, Horticultural
Hall, Broad St.November 10-13, Chicago.—Fall exhibi-
tion Horticultural Society of Chicago.
James D. Reynolds, Sec'y, Riverside, Ill.November 10-13, Minneapolis, Minn.—
Chrysanthemum show Minneapolis Florists'
Club. E. Nagel, Sec'y, 1116 West
Lake St.November 10-14, Indianapolis.—Chrys-
anthemum show Society of Indiana
Florists. W. G. Bertermann, Sec'y, 37
Mass. Ave.November 11-12, Worcester, Mass.—
Chrysanthemum show Worcester County
Hort. Society. Edward W. Lincoln,
Sec'y, 5 Oak St.November 11-12, Galt, Ont.—Chrysanthem-
um show Galt Hort. Society. Thos.
Vair, Sec'y.November 11-12, Montreal.—Chrysanthem-
um show Montreal Gardeners' and
Florists' Club. W. Wilshire, Sec'y, 688
Sherbrooke St.November 11-13, St. Louis.—Chrysanthem-
um show St. Louis Florists' Club. S.
Kehrmann Jr., Sec'y, 21 South Broadway.November 11-13, Springfield, Mass.—
Chrysanthemum show Hampden County
Hort. Society. George D. Pratt, Sec'y,
192 Maple St.November 11-13, Utica, N. Y.—Fall exhibi-
tion Utica Florists' Club. J. C. Spencer,
Sec'y.November 12-14, Buffalo.—Chrysanthem-
um show Buffalo Florists' Club. Dan'l
B. Long, Sec'y, 457 Main St.November —, New Orleans, La.—
Chrysanthemum show New Orleans Horti-
cultural Society. Chas. Wise, Sec'y,
Third and Prytania Sts.November —, Baltimore.—Fall exhibi-
tion and chrysanthemum show Garden-
ers' Club of Baltimore. Henry Bauer,
Sec'y, 1875 N. Gay St.November —, Germantown, Pa.—
Chrysanthemum show Germantown
Hort. Society. Thos. E. Meehan, Sec'y.November —, New Haven, Conn.—
Chrysanthemum show New Haven
Chrysanthemum Club. Miss Frances S.
Ives, Sec'y, 478 Orange street.November —, Syracuse, N. Y.—
Chrysanthemum show Central New York
Hort. Society. H. Youell, Sec'y, 228
Beecher street.November —, San Francisco.—
Chrysanthemum show California State
Flora Society. Emory E. Smith, Sec'y,
321 Market St.LANDSCAPE GARDENING, by Samuel Parsons,
superintendent of parks New York
City, G. P. Putnam's Sons, New York.
This is a beautifully gotten up and delight-
fully written book. The author treats
his subject with charming gracefulness
and displays an uncommon familiarity
with all manner of trees and shrubs and
other plants employed in outdoor garden-
ing. He dwells upon the landscape pic-
tures of every season of the year and foli-
age effects. He becomes enthusiastic
over the old-fashioned flowers in hisgrandmother's garden and enraged at the
garishness of some modern flower beds;
he leads us in solemnity to the churchyard
and cemetery, in a hurry to the railway
station and in delight to the water-lily
pond, and invites us to rest awhile in the
nookeries of the home grounds. From
first to last he is entertaining and never
tiresome. But we wish Mr. Parsons had
condensed his text enough to give us more
plain, pointed, practical instruction; we
wish to know not only what to do but
how to do it. We hunger for information
about how to lay out small gardens and
pray for a series of simple working plans,
and would far rather have select brief
lists of plants for particular purposes
than wade through a bewildering multi-
tude.A COPY of the proceedings of the six-
teenth annual meeting of the American
Association of Nurserymen has been re-
ceived. It contains all the essays read at
the Minneapolis meeting and very full
reports of other matters considered and
discussed. No nurseryman can afford to
be without this report, containing as it
does so much of direct financial value to
everyone in the trade. The report can be
secured by sending the membership fee of
\$2 to the secretary, Mr. Chas. A. Green,
Rochester, N. Y.MESSRS. E. HALL & SON, Clyde, O.,
send us a photograph of a plateful of hail-
stones that fell at Clyde June 3. As shown
in the photo the stones average over one-
half inch in diameter, and Mr. Hall
writes that the photo shows them only
one-fourth actual size. Also that the
largest stones were not selected, but that
the lot shown were scooped up out of the
gutters of one of their greenhouses with-
out sorting. We should not like to be
exposed to a fall of such chunks of ice as
that.OUR ANNUAL convention supplement
which will be published with our issue of
August 13 will contain a sketch map of
the city of Toronto on which will be
prominently indicated the Convention
Hall, hotels at which rates have been
secured, and many other items of immedi-
ate interest to the visiting members.
Advertisements for the supplement will
be received at usual rates.CONSIDERABLE interest is being mani-
fested in the proposed meeting of mem-
bers of the various Florists' Clubs at
Toronto during the convention. Undoubt-
edly much good will result from such a
meeting, and every club should take
steps to be represented by duly accredited
delegates, with instructions regarding
any special subject it desires to have
discussed.PARLOR B. QUEEN'S HOTEL, will be
the headquarters of the AMERICAN Florist
at the Toronto convention.PLEASE SEND us a report of your spring
plant trade as compared with past
seasons.**NOTICE**
— OF —
Stockholders' Meeting.

CHICAGO, July 18, 1891.

The American Florist Company:

You are hereby notified that the annual meet-
ing of the Stockholders of the American Florist
Company will be held in Parlor B, Queen's Hotel,
Toronto, Ont., Tuesday, August 19, 1891, at 10
o'clock p. m., for the purpose of electing directors
and officers for the ensuing term, and for the
transaction of such other business as may come
before the meeting.J. C. VAUGHAN, Pres.
G. L. GRANT, Sec'y.

Be Good Trade.

AM. SEED TRADE ASSOCIATION.

F. DARTMOUTH, Lawrence, Kan., president; A. L. DUNN, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Sutherland, chairman membership committee, Wethersfield, Conn.

FRENCH BULBS, except freesias, which are scarcer, are coming in earlier than usual this year.

THE PEA CROP.—Extra earlies are said to be about two-thirds of a full crop; American Wonders somewhat better than that.

THE HIGGNUM MANUFACTURING CORPORATION, of Higganum, Conn., manufacturers of agricultural implements, have assigned.

REPORTS FROM NEBRASKA state that heavy rains and cool weather have put crops back so that they are about two weeks behind. Vine seeds were hurt more than corn.

Principal Toronto Hotels.

NAME.	CAPACITY.	RATE PER DAY.
Queens Hotel, Headquarters, 75 to 92 Front St.	300	\$3.00 to \$4.00
Rossall Hotel, King and York Sts.	250	3.00 to 4.00
Walker House, Front and York Sts.	250	2.00 to 2.50
Palmer House, King and York Sts.	250	2.00 to 2.00
Arlington Hotel, King and John Sts.	200	3.00 to 4.00
St. James Hotel, King and York St. (opp. station)	50	1.50
Albion Hotel, Market Square.	300	1.00
Ellis House, Church and Shuter Sts.	150	2.00
Hotel Metropole, King and York Sts.	75	2.00
Avondale Hotel, Simcoe and Wellington.	50	1.50
Richardson House, King and Spadina.	100	1.50
International Hotel, Front and Simcoe.	200	1.50
Black Horse Hotel, Front and George.	125	1.00
Russell House, 215 Yonge St.	50	1.50
Power House, King and Spadina.	50	1.50
Schiller House, 120 Adelaide St. E.	50	1.00
Lakerview Hotel, Parliament and Winchester.	75	1.50
Keachie's Hotel, 30 King St. W.	50	(European)
Empress, Yonge and Gould.	100	1.00 to 1.50

The majority of the above hotels are in the business portion of the city, the center of which is about one and a half miles from the convention hall in the Horticultural Gardens. Street cars pass the doors of all of them, making communication between hotel and hall quite easy.

Members wishing to secure accommodation before hand will do well to communicate early with Mr. J. H. Dunlop, 1 McKenzie avenue, Toronto, Ont.

A FLORIST in a western city is reported to have been so busy lately that it was only with difficulty he found time to keep an engagement with an attractive young lady and a minister. We wish the couple joy, but fear for the worst.

JUST BEAR in mind that the AMERICAN FLORIST goes to everyone in the trade and when you advertise in its columns you reach every florist in America.

SEND IN YOUR ad. for our convention supplement early, so we will have time to get it up in our best style.

WAS YOUR spring plant trade larger or smaller than last year? Please send us a report.

SITUATIONS, WANTS, FORSALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (no fewer words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a young man experienced in all branches of florist trade. Address M. A. K. care American Florist, Chicago.

SITUATION WANTED—By a first class florist; single; German; 3 years' experience. Location at near Chicago desired. Good references. Address G. M. K. care H. J. Thon, Schenectady, N. Y.

SITUATION WANTED—By a German; single; with long experience and good reference. Private place preferred. Address: State particulars G. K. Baier's Hotel, 79 Michigan St., Chicago.

SITUATION WANTED—By an experienced, first class florist and nurseryman; German; single; in greenhouse or private place. Fine trade preferred. Address F. Z. care American Florist.

SITUATION WANTED—By a young man; wishes steady engagement by first of August; growing roses and all other kinds of cut flowers; best of references given. Address F. T. care Am. Florist.

SITUATION WANTED—West preferred; grower; 20 years; just arrived from Europe; well up in all branches of the trade. Has had the management of some large European firms. Finest testimonials. Address: General Florist, Hortus, General Roadside, New York.

SITUATION WANTED—As foreman in a place where roses are wanted—H. P. and teas of first quality and florist stock in general. Sober, honest and capable. Address: Florist, care D. D. L. F. Hort. Hall, Broad St., Phila., Pa.

SITUATION WANTED—With a practical florist S. where the growing of crops and specialties can be acquired. 5 years' experience in growing general greenhouse plants. Good references; small wages. Address: Y. Z. care American Florist, Chicago.

SITUATION WANTED—Two German gardeners. Thoroughly experienced in all branches of their trade. want a good private place on condition as foreman after the 1st of September; 10 and 12 years' experience. First class references. Address: P. O. Box 180, Flatbush, L. I., N. Y.

SITUATION WANTED—By practical, trustworthy S. gardener, as general manager of private or public grounds or large commercial plant; thoroughly experienced in all branches; particularly qualified in roses, and florist stock in general. Rock-work and landscape gardening; unexcelled in stove plants, palms and orchids; a successful hybridizer; 25 years' experience; sober. A first class place only required. Unexceptional reference. Married, small family. Address, stating wages. BOFANIST, Forbes St. and Craft Ave., Pittsburg, Pa.

WANTED—A thoroughly competent rose grower, capable of managing a large establishment. Apply Grand Central Hotel, New York City.

WANTED—A second-hand boiler in good condition, to heat a small land 1300 square feet. Hitches No. 15 preferred. Also about 100 feet of 2 inch or 4-in. pipe. C. KRIEGER, Mt. Sterling, Ky.

WANTED—A man who has been successful in the management of first class horticultural establishment, including a knowledge of forestry. Apply Grand Central Hotel, New York City.

WANTED—Competent young man for florist store. Must be thoroughly experienced and competent to do all kinds of first class work, especially decorations. References required. Address E. WEINBERGER & Co., 417 Elm St., Chicago.

WANTED—A steady, energetic young man, who understands the propagation and growing of plants, and who is competent to take charge of commercial place. Address, giving reference, age, and wages wanted. L. K. PRACON, Alto, N. J.

WANTED—Florist artist. Position will be vacant October 1st. Must be skillful, quick and of pleasing address. A good situation for a good man, none other need apply. Give reference and salary expected. Address A. M. & J. B. McDOCK, Pittsburg, Pa.

WANTED—German gardener who is willing to work a 10 to 20 acre vegetable garden. To the right man I will furnish land, tools, house to live in and I will attend to the profits. Will pay living wages up to the closing of the first season. One hour from Chicago. R. H. SANBORN, Geneva, Ill.

FOR SALE—A well established and paying retail florist business. Address Box 1024, Duluth, Minn.

FOR SALE—Six thousand feet Hitches 4-in. pipe. Fine foot lengths, at 8 cents. Also four Hitches bolts, No. 19, and two No. 17. All in first class condition. Address C. A. REESER, Springfield, Ohio.

BOILERS FOR SALE.
No. 1 Upright Shore power used 4 years \$25.00.
No. 2 Horizontal 1-horse power, used 5 yrs. \$20.00.
Both boilers in good condition, and heated the same glass water tank, we are now with a 6-horse power boiler. De WITT BIOS, Bristol, Pa.

WANTED. PAIR OF
VARIEGATED AGAVES, good size.

C. B. WHITNALL & Co., Milwaukee, Wis.

TO LET ON LEASE.

For a term of years, one of the Largest and most Complete greenhouse establishments in the West. For particulars, apply to

HORTICOLE,

Grand Central Hotel, New York City.

FLORIST BUSINESS.
FOR SALE CHEAP—On account of ill health the owner will sell the whole for small cash deposit, the balance of purchase money on easy terms to suit buyer. It consists of ten greenhouses (17,000 feet), handsome two-story dwelling, stable, etc., etc., situated at Flatbush, near Brooklyn city line and within few minutes' walk of horse cars and railroad station. For full particulars address

ANDREW HARTH, Flatbush, L. I., N. Y.

READY NOW.

Fine Stock of

- LILIAM HARRISI,
- CALLA BULBS,
- FREESIA REFR. ALBA.

Send for Samples and Special Quotations.

W. W. BARNARD & CO.

6 & 8 North Clark St., CHICAGO.

BULBS, BULBS, BULBS.
CHINESE NARCISUS.

Order Now if you wish to secure BEST GOODS at Lowest Rates.

AURATUM, LONGIFLORUM, RUBRUM, KRAMERI.

ALBUM, ETC. CALIFORNIA BULBS.

We guarantee you best stock at the most reasonable rates if ordered now.

Australian Palm and California Flower Seeds.

Send for our Newest Trade Price List.

H. H. BERGER & CO.,
P. O. Box 2132, SAN FRANCISCO, CAL.


G. J. MOFFATT,
Manufacturer of

PAPER BAGS AND ENVELOPES
Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

BE READY THIS WEEK
FOR LILIAM HARRISI, FINE BULBS.
NEXT WEEK ROSE HYACINTHS, ETC.
Use HORN SHAVINGS for Rose Beds.
H. H. BERGER & CO. CHICAGO



Pansy Seed.

CHOICEST QUALITY AND STRAINS OBTAINABLE.

Trimaradeau, choicest French mixed, unsurpassed in brilliancy of color and size of flowers, some measuring from 3 to 4 inches across. per lb. \$3.00 per lb. \$1.00	2.50	2.00	1.50	1.00	75	50	25
Same, golden yellow	2.50	2.00	1.50	1.00	75	50	25
Same, purple	2.50	2.00	1.50	1.00	75	50	25
Order of Imperialis, fine Pansies 3 and 5 bloched extra	4.00	2.50	1.50	1.00	75	50	25
DEVEER'S CHOICE MIXED, composed of the best strains and varieties of improved strains	4.00	2.50	1.50	1.00	75	50	25
Bugnot's, new, spotted, large flowering show Pansies, somewhat smaller than Trimaradeau, but of even more exquisite markings and richer colors, pronounced by many the finest strain produced yet. This variety produces few seeds, and is yet very scarce.	6.00	4.50	3.00	2.00	1.50	1.00	.50
Cassier's, 3 and 5 bloched, Giant, extra fine	6.00	4.50	3.00	2.00	1.50	1.00	.50
Roemer's, new 5 spotted Giant, producing enormous flowers	6.00	4.50	3.00	2.00	1.50	1.00	.50
Improved Large Flowering, (fine strain), mixed	1.50	1.00	.65	.45	.30	.20	.10
Black tinted golden bronze, white, pure; yellow, pure; each	1.00	.75	.50	.30	.20	.15	.10
Light bronze; dark bronze; Emperor William; blue	.75	.50	.30	.20	.15	.10	.05
Faust, King of the Blacks, fine for bedding; Lord Beaconsfield, purple	.75	.50	.30	.20	.15	.10	.05
Mahogany (rubra); Prince Bismarck, brown and golden bronze marbled; quadricolor; white; yellow; superior quality, mixed; each	.75	.50	.30	.20	.15	.10	.05
One German mixed, 100 seeds, \$1.00	.50	.35	.25	.15	.10	.05	.05
Meteor, novel of 1891, reddish brown	.....	.....	.....	.....	.....	.....	.....
Peacock, beautifully bloched	.....	.....	.....	.....	.....	.....	.....

CINERARIA.	Per pkt.
Hybrida, good mixed, 1/2 ounce \$1	.....
grandiflora, choicest mixed, 1.00 seeds, 75 cents	.....
grandiflora dwarf, choicest mixed, 1.00 seeds, 75 cents	.....
grandiflora kermisina, novelty 1891	.....
choicest double mixed, 100 seeds, \$1.00	.....
PRIMULA.	.....
Sinensis, fringed, fine mixed, 1.000 seeds, \$1	.....
" extra mixed, 1.000 seeds, \$1.50	.....
" new varieties, each	.....
" double fringed, mixed, 100 seeds, 75 cents	.....
" five varieties, each	.....

TERMS CASH. For other Seeds, Fall Bulbs, Florists' Supplies, Imported Nursery Stock, etc., write for Catalogues, if not yet received.

ADDRESS:

J. A. DE VEER,
154 East 34th Street, NEW YORK.

PANSIES.

PANSIES THAT ARE UP. No need to worry over getting the seed to come up, it is up and ready to plant when I send them.

It is not only the plants that are up, the strain is up also; up to, and a goodly number of my customers say, above any strain in the market. The price is down, considering the quality of the strain, seed as good would cost you about as much per 1000 plants. My price is \$5.00 per 1000, or in lots of 2,500 and over, \$4.50 per 1000.

SEND FOR LIST AND SHORT PAPER ON CULTURE.

PLANTS READY AUGUST 20th TO DECEMBER 1st.

SMILAX.

Plants ready July 1st and later. These will be nice and stocky, and ready to go right ahead. There is some 40,000 here; let me have a chance to fill your order.

Send to cents for samples and get my prices before ordering elsewhere.

L. B. 338. **ALBERT M. HERR, LANCASTER, PA.**

ORCHIDS.

The finest stock in the WORLD. Nearly five acres devoted to their culture.

SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.

100 FOR \$25.00.

Orchids.

BRACKENRIDGE & CO.,

Established 1854. **Govanstown, Md.**
Mention American Florist.

E. G. HILL & CO.,
RICHMOND, INDIANA.

Send for our January Trade List. A full line of the finest Novelties from prominent growers.

COMPLETE STOCK OF NEW STAPLES:
ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported FLOWER SEEDS for florists.

E. G. HILL & CO., Richmond, Indiana.

HOW CAN YOU GET ALONG WITHOUT OUR

TRADE DIRECTORY?

AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,
NEW ROCHELLE, N. Y.

New and
Rare Plants
ORCHIDS

Hardy
Plants.
PALMS,

FERNS.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.
Mention American Florist.

A FRESH CONSIGNMENT OF
MEXICAN ORCHIDS

Such as *Laelia anceps* (winter bloomer), *Laelia albida*, *Cattleya citrina* (extra fine), *Epidendrum vitellinum majus*, *Odontoglossum aureum* (true), *Odontoglossum maculatum*, *Oncidium orthotrichum*, etc., etc. Very low prices.

Write for price list.
FREDERICK MAU,
P. O. Box 322. South Orange, N. J.

COLEUS Verschaffeltii, Golden Bicolor, Golden Bicolor, Sunset, from 2¢ in pots, \$30 per 100; \$2.50 per 100. From 3¢ in pots, \$25 per 100; \$1 per 100. Large stock, \$5.00 per 100; \$2 per 100. All orders should be accompanied by money, otherwise shipped C. O. D.

JOHN RECK, Bridgeport, Conn.

GARDINER'S SUPERB CHINESE PRIMULAS.



The Chinese Primula has long been a favorite floral flower, and it has never been seen in greater perfection than now—some very rare and remarkable varieties having been produced within the past few years. Our strain is from a celebrated European specialist, and is acknowledged to be superior to all other strains now on the market. The many flattering testimonials we have received warrant us in recommending this strain very highly.

100 seeds. 500 seeds. 1000 seeds
Choice Fringed (not fern leaved), beautiful colors. .50 \$2.00 \$3.50
Choice Fringed (fern leaved), beautiful colors. .50 2.00 3.50

Address all orders and correspondence to

21 North 13th St., Philadelphia, Pa.,

JOHN GARDINER & CO.

Trade list of Forcing Stock now ready.

Trade list of Special strains Flower Seeds for florists on application.

PANSIES. * *

Plant your frames this fall with PANSIES that will SELL AT SIGHT. You want the BEST if you keep up with the procession. My strain cannot be surpassed for size, color, or substance of flowers. I know my stock will please, and I am prepared for a big rush.

FINE STOCKY PLANTS, once transplanted, \$5 per 1000 by express; 75¢ per 100 by mail. Special prices on larger lots. Orders booked now filled in rotation, or on any date desired after August 15.

ALEX. McBRIDE,
ALPLAUS, N. Y.

ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED. ROEMER, SEED GROWER,
QUELDINBURG, GERMANY.

Premium American Pansy Seeds.

Grown by **WM. TOOLE**, Pansy Specialist, HARABOD, WISCONSIN.

In 3¢ separate varieties and mixture. Price list free by mail. New Crop Now Ready.
Extra choice mixed, pkt. 10¢; trade pkt. 10¢; 1/2 oz. \$1.00. Selected mixed, pkt. 10¢; trade pkt. 30¢; 1/2 oz. \$2.50. 1/2 oz. \$4.50. Florists' mixed, pkt. 10¢; trade pkt. 30¢; 1/2 oz. \$1.50. 1/2 oz. \$2.50. 1/2 oz. \$4.50. 1/2 oz. \$2.50. 1/2 oz. \$4.50. Trade packets contain about 100 seeds. Plants in season.

Zirngiebel's GIANT MARKET AND FANCY PANSIES

New crop seed of those superb strains now ready, in trade packets of 1,500 and 600 seeds respectively, at one dollar each.

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.

Pansies, Extra.

The Jennings strain of large flowering Pansies, the finest in the market, is now ready.

Florists who have used this strain say it is the best they can get. It is finer than last year.

Seed, finest mix'd, 4¢; trade pkt. 25¢, 50¢, 1.00. Large yellow with dark edge, 25¢, 50¢, 1.00. Yellow, per ounce, \$5.00; mixed, per ounce, \$6.00.

Plants in any quantity ready Sept. 1, 60 cents per 100 by mail; \$5.00 per 100 by express.

Address **E. B. JENNINGS**, Pansy Grower, Box 76, SOUTHPORT, CONN.

Single and Double Thick Glass.

In reply to Mr. Alexander Murdoch, who asks concerning the relative resistance of single and double thick glass against hailstones, I would say: The breakage of glass in such cases depends a great deal upon the velocity of the wind, the consistency of the hailstones and the angle at which it strikes the glass. Where both kinds of glass have been exposed in the same storm is the only way to ascertain their relative resistance. In two cases the F. H. A. has paid small losses on single thick where no double thick was broken. In two cases payment has been made for double and single thick glass broken in the same place by the same storm, the average proportion of loss being about one-third greater on the single than on the double thick. In the recent storm at Oconomowoc, Wis., the percentage of breakage was nearly as large on J. T. Bartlett's double thick glass, as upon Herman Bucher's single thick, but in this case the hail might have been more severe where Mr. Bartlett was located. These instances, together with others where only one kind of glass was exposed, leads us to believe that double thick glass will resist hail where the velocity of the wind is moderate and the hailstone not too large or icy, that in an average hail storm the percentage of loss will be at least one-third greater on single thick than on double thick glass, and when it comes to storms where blocks of ice are accompanied by violent wind it doesn't make much difference whether you have double thick glass or not. The F. H. A. recognizes that the risk is less on double thick glass by charging less and paying more in case of breakage, and during the four years of its operation nothing has occurred to make a change necessary. Personally my opinion is that large, double thick glass is much the cheapest in the end, and less likely to break from the effects of frost or hail. JOHN G. ESSLER.

Wrinkles in Construction.

In the new greenhouses erected by E. G. Hill & Co., Richmond, Ind., wrought iron pipe was used for purlins as well as for the upright supports. The purlins were fastened to the sash bars by strips of metal as illustrated in the FLORIST some time since. But a new use has been found for this purlin, and it seems strange that no one has happened to think of it before. The pipe purlin is utilized to carry the water to every part of the house. This not only saves the expense of another pipe to carry the water, but being up close under the roof the water that stands in the length of pipe is warmed sufficiently to take the chill off of it and this is an advantage at times. The majority of the upright supports are attached to the purlin by T's which have been recamed out so that the purlin passes freely through them and pipes of full length can be used without cutting, though the supports are only eight feet apart. But at stated intervals a regular pipe connection is made which carries the water down the pipe support and to which a water cock is attached.

Another new departure in Messrs. Hill & Co.'s new houses is the use of sheet steel siding for weather boarding. This is said to be about as cheap as ordinary wooden siding and certainly much more indestructible.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

ORDER NOW AZALEA INDICA.

Fine budded plants, best sorts at

Lowest Prices.

C. H. JOOSTEN, 3 Coenties Slip, NEW YORK,
Importer of BULBS and PLANTS.

Mention American Florist.

Really Good SEEDS.

SPECIAL FOR FLORISTS.

A 1 Giant Pansies, $\frac{1}{2}$ -oz. \$1.50; per oz. \$5.00
Calceolaria, prize strain, trade pkt. 1.00
Cineraria grandiflora, special " 1.00
Stock, double white, very dwarf, " .50
Primula Fimbriata, mixed, " 1.00
" double white, per 100 seeds, 50 cts.
" double red, " 50 cts.

JOHN THORPE,

Terms Cash. PEARL RIVER, N. Y.

PUBLIC SALE

—OF—

28 GREENHOUSES AND STOCK,

Comprising thousands of Azaleas, Camellias, Palms, hot house and bedding plants. Also boilers, 4-inch pipe and fittings, will be sold without reserve.

Sale to Commence Monday Aug.
31, 11 o'clock a. m.,

and continue until everything is sold. The above stock will be on private sale until date of public sale, at greatly reduced rates. Florists wishing a stock of fine Azaleas or Camellias would find in their advantage to inspect before purchasing elsewhere.

JOHN DICK, Sr.,

53rd and Woodland Ave. PHILADELPHIA, PA.

Primula Sinensis THOUSANDS!

Fine stocky stuff, from 2-inch pots, in splendid health and finest strains, at \$5.00 per hundred.

S. S. BAIN, FLORIST.

66 Beaver Hall Hill. MONTREAL, CANADA.

P. S.—No duty on plants going into the States.

C. C. ABEL & CO., New York, Agents for
G. G. VAN TUBERGEN, Jr., Florist and Seedsman, Holland.
V. LEMOINE & SONS, Florists, New Varieties of Plants a Specialty, Nancy, France.
FRANCIS KREHFA, Roman Hyacinths and other Bulbs, Orléans, France.
ERNST REUSCHNEIDER, Lilies of the Valley a Specialty, Hamburg, Germany.
PIERRE SEBAST & SONS, Nurserymen and Florists,issy, France.
G. BERNARD, Rose and Nursery stock, Orleans, France.
Catalogues free on application, when referred for distribution. All orders for these houses should be addressed to
C. C. ABEL & CO.,
15 to 25 WHITEHALL ST. P. O. BOX 302 NEW YORK.

CHRYSANTHEMUMS.

Best market sorts in 30 varieties from 3-inch pots, \$3.00 per 100.
SMILAX, from 2½-inch pots, \$1.50 per 100; \$12.00 per 1000.

Address J. G. Burrow,

FISHKILL N. Y.

Mention American Florist.

KOSTER & CO.

Bea to say that their Wholesale Catalogue of

AZALEA MOLLIS,

CLEMATIS,

HARDY GHEINTISH AZALEA,

PÆONIES, ETC.,

is now ready. They will be pleased to send a copy free on application.

—EARLY ORDERS SOLICITED—

KOSTER & CO., Nurserymen,
BOSKOOP, HOLLAND.

FINE FERNS.

PTERIS CRITICA ALBA LINEATA,

ONYCHIUM JAPONICUM,

ADIANTUM PUBESCENS,

And other varieties.

Strong plants, 2-inch pots, \$4 per 100; \$35 per 1000

JOHN WELSH YOUNG,
FRANK STREET, GERMANTOWN, PA.

SMILAX.

Nice stocky well grown plants for immediate planting. \$1.50 per 100; \$12.00 per 1000.
PÆONIES, fine, well ripened, home grown bulbs (far superior to imported), \$1.25 per doz.; \$12.00 per 1000.

ONALIS (Kloss grandiflora) or Bowell throst all for house culture, per doz., 50c.; per 100, \$4.00.
CYCLAMEN, Persian and elegantum, fine bulbs and stock, \$1.00 per doz.; \$5.00 per 100.

F. A. BALLER, Bloomington, Ill.

THE THRIFTY TRY TO THRIVE.

Thrift is easy to the active florist who makes use of a set of

LONG'S FLORAL PHOTOGRAPHS

in taking orders. They accomplish wonders, almost.

ADDRESS FOR CIRCULAR.

Don't B. Long,
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H. BAYERSDORFER & CO.,

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FLORISTS' SUPPLIES ONLY,

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CONVENTION SUPPLEMENT

Our Annual Convention Supplement
will be published with the

AUGUST 13 ISSUE.

It will contain a sketch map of the city of Toronto, give locations of Toronto Hotels, with rates at each one, directions to reach points of interest, and other notes of value to visiting members.

ADVERTISEMENTS

for the Supplement should be received by **August 7 at latest**, and as much earlier as possible. **Rates** same as in the body of the paper: *10 cents per agate line; page \$42.00; half page \$21.00; column \$14.00; half column \$7.00; inch \$1.40.*

Being mailed with the August 13 issue it will reach members before they start for the Convention, and will be their friend, philosopher and guide on the way to and during the meeting. Extra copies will be distributed at the Convention.

SEND IN YOUR ADVERTISEMENTS EARLY.

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ALL SIZES OF SINGLE AND DOUBLE THICK
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anything that grows wild.

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PRICE, \$2.00.
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Butted Glass.

A few years ago I built a house for general use, 17x90. I had heard something about butted glass that I was tempted to try it in this house. As I am one who is always willing to take advice from his elders, I was easily induced to try a little sand on the liquid putty before it became thoroughly dry. It was never satisfactory. It always leaked more or less. It was a standing joke with the men to tell each other to carry an umbrella in this house during a rainstorm. Now, as I am about to reglaze this house, I find that my sand and liquid putty have united in making a cement that is harder than the conscience of a pawnbroker. The breakage of glass, too, in taking out the panes is greater, in my estimation, than the old way. This is of no value to men of experience, as they are competent to judge for themselves; but to the "young and inexperienced," like myself, I would say, "If you are in doubt about it, don't do it."

CHAS. E. HAY.

"Heavy-Shotted Insinuations."

PUBLISHERS, AM. FLORIST: Should you have any more advs. for positions mailed you, with my initials and address attached, as on a recent occasion, you will oblige me by making it read in my care, and not as before. In the case noted it is stupidly made to appear that I am not only **SOME** and **INDUSTRIOUS**, but that I want work. These heavy-shotted insinuations may strike near the mark, but don't exactly hit the bull's eye. Yours truly,

COL. D. D. L. F.

Two-Inch Pipe.

Will some reader of the FLORIST who has had experience please tell me what number of feet of 2-inch pipe would be required to heat a house that is now heated by 1,200 feet of 4-inch pipe? I would also like to know the cost per foot of the plain iron pipe—not galvanized.

Will some reader also state the average price of crude petroleum for fuel purposes.

NEW JERSEY.

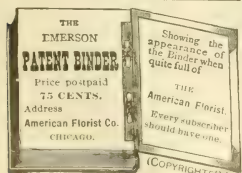
OUR CONVENTION SUPPLEMENT will be published with the issue of August 13, and the map and directions it will contain will, we believe, be of considerable value to those attending the meeting at Toronto. Exhibitors wishing to call special attention to their exhibits will find the supplement a very effective medium.

WILL YOU be with us at Toronto? You will miss it if you stay away.

CATALOGUES. *

I MAKE 'EM, WITH CUTS
AND "KNOW HOW."

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... HARRISBURG, PA.



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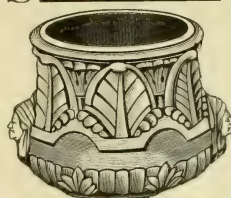
Price List sent on application to

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—AND—

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NOTE.—Our new Catalogue for the Fall of 1891, containing illustrations of New Jardinieres especially adapted for Standard Pots is now ready and will be sent on application.

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1 1/2 inch	2,000	250 lbs.
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2 1/2 "	1,750	250 "
3 "	1,450	250 "
3 1/2 "	1,250	250 "
4 "	800	350 "
4 1/2 "	600	350 "

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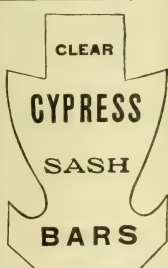
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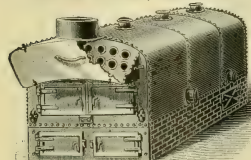


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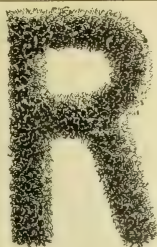
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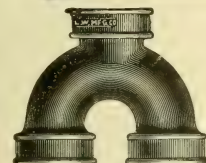
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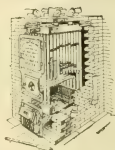
I am for hot water first, last and always; think it much better than steam.

Yours truly,

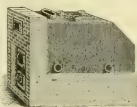
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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VI.

CHICAGO AND NEW YORK, JULY 30, 1891.

No. 165.

THE AMERICAN FLORIST

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Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
54 La Salle Street, CHICAGO.

The Seventh Annual Meeting

— OF THE — SOCIETY OF AMERICAN FLORISTS

— WILL BE HELD AT —

TORONTO, ONTARIO,
AUGUST 18, 19 AND 20, 1891.

Members may remit the annual dues (\$3.00) to the secretary or treasurer prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for 1891 will be sent by mail to those who remit in advance of the meeting. Attending members can obtain any information wanted by addressing the Secretary, M. H. Norton, Pres., Boston, Mass.; John Chambers, Vice-Pres., Toronto, Ont.; M. A. Hunt, Treas., Terre Haute, Ind.; W. J. Stewart, Sec'y, 67 Bromfield Street, Boston, Mass.

FLORISTS' HAIL ASSOCIATION.

Insures greenhouses against damage by hail.
JOHN G. ESLER, Secretary, Saddle River, N. J.

FLORISTS' PROTECTIVE ASSOCIATION.

Gives information to members regarding the financial standing and business integrity of those in the trade.
H. B. BEATTY, Sec'y, Oil City, Pa.

AMERICAN CHRYSANTHEMUM SOCIETY.

JOHN THORPE, Pearl River, N. Y., president;
EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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Society of American Florists.

PROGRAMME TORONTO MEETING.

TUESDAY, AUG. 18, 1891.

FIRST DAY—Opening Session, 11 o'clock, A. M.

ADDRESS OF WELCOME, MAYOR OF TORONTO—RESPONSE, JUDGE C. W. HOITT, OF NASHUA, N. H.—PRESIDENT NORTON'S ADDRESS—REPORTS: SECRETARY, TREASURER; STANDING COMMITTEES AND SPECIAL COMMITTEES—MISCELLANEOUS BUSINESS—DISCUSSION OF PRESIDENT'S ADDRESS.

There will be a delegate meeting of gardeners' and florists' clubs at 2:30 p. m.

FIRST DAY—Evening Session, 7:30 o'clock.

ESSAY—The Future of Floriculture in America, W. A. MANDA, Short Hills, N. J.
Review of New Plants—W. M. FALCONER, Glen Cove, N. Y.

The Question Box. (See below.)

WEDNESDAY, AUGUST 19, 1891.

SECOND DAY—Morning Session, 10 o'clock.

Selection of place of meeting and nomination of officers for 1892.

ESSAY—Sub-Tropical Bedding.
ESSAY—Aquatic Plants, BENJ. GREY, Malden, Mass.

ESSAY—Exgonias; Flowering and foliage; their value as bedding and decorative plants. JOHN CHAMBERS, Toronto, Ont.

Election of state vice-presidents by state delegations after close of morning session. The bowling contest will take place on this afternoon, place and hour to be announced hereafter.

SECOND DAY—Evening.

The evening of Wednesday, August 19, will be devoted to the annual meetings of the following auxiliary societies:

The Florists' Protective Association will meet at 7 p. m. H. B. BEATTY, Oil City, Pa., sec'y.

The Florists' Hail Association will meet at 8:30 p. m. JOHN G. ESLER, Saddle River, N. J., Sec'y.

THURSDAY, AUGUST 20, 1891.

The American Chrysanthemum Society will meet at 9 a. m.

THIRD DAY—Morning Session, 10 o'clock.

Election of officers.

ESSAY—Credits, H. B. BEATTY, Oil City, Pa.
ESSAY—Store Trade, Wm. H. Long, Boston, Mass.

ESSAY—Winter Flowering Plants Suitable for Decoration.

THIRD DAY—Evening Session, 7:30 o'clock.

ESSAY—Carnations to Date, FRED DORNER, Lafayette, Ind.

Question Box. (See below.)

Final Committee Reports.

QUESTION BOX.

The following subjects for the Question Box have been already sent in, and together with those placed in the box during the sessions will be assigned to gentlemen competent to reply to them on the evenings of the first and third day. The questions will be grouped as nearly as possible, so that subjects of general

interest to the trade will be assigned to the first evening. Strictly cultural questions and those relating to mechanical appliances in greenhouses will be assigned to the third evening. Five minutes will be allowed for each reply.

SUBJECTS.

Should Florists Charge for Boxing and Packing?

How Can We Best Profit by the Demand at special seasons?

Is Miscellaneous Advertising in the Retail trade Advisable?

How to Successfully Manage Floral Exhibitions?

What Are the Best Twenty Foliage Plants and the Best Twenty Flowering Plants for Decorative Gardening?

What are the Best Twelve Companions to India Rubbers and Lantanas for House Decoration?

New Ideas in Greenhouse Construction and Heating?

Best Method of Tempering Hydrant Water?

Best Method of Distributing Liquid Manure?

Growing Roses for Summer Use?

The Best Varieties of Gladioli for Forcing?

How to Master the Green Fly?

How to Mend a Rubber Hose?

FRIDAY, AUG. 21, 1891.

FOURTH DAY.

An excursion on Lake Ontario by invitation of the Gardeners' and Florists' Club of Toronto.

Names and Addresses of Chairmen of Committees of Toronto Gardeners' and Florists' Club for S. A. F. Convention, August, 1891.

Reception Committee—Mr. John Chambers, Superintendent Parks and Gardens, St. Lawrence's Hall, Toronto, Ont.

Trade Exhibit Committee—Mr. Thomas Manton, florist, Eglinton, Ont.

Entertainment Committee—Mr. W. J. Laing, 401 Huron street, Toronto, Ont.

Ladies' Committee—Mrs. Fraser, florist, Spadina Crescent, Toronto, Ont.

Introduction Committee—Mr. F. G. Foster, florist, Hamilton, Ont.

Decoration Committee—Mr. C. Arnold, florist, 521 Queen street, W., Toronto, Ont.

Finance Committee—Mr. J. H. Dunlop, florist, corner of Bloor street and McKenzie avenue, Toronto, Ont.

Printing and Badge Committee—Mr. S. E. Briggs, of the Steele Brothers Co., corner of Front and Jarvis streets, Toronto, Ont.

Bureau of Information—Mr. George Park, care Sir D. S. McPherson's Chestnut Park, Toronto, Ont.

Will you be with us at Toronto? You will miss it if you stay away.

"Listen to My Tale of Woe."

As a retailer, does it pay to try to maintain a high standard of work? This question has often occurred to me. Our business is not a very large one, to be sure, but it has been our constant aim to cater to the "very best" trade, and to fill every order to the best of our ability as to the selection and arrangement of flowers, making every effort to procure all the novelties at our command, and always paying particular attention to the quality of flowers which we buy, frequently paying a premium for same.

Very seldom are we successful in getting an order from a stranger, if he is "gunning" for estimates, and such cases are generally governed by the amount of work that the florist promises for the least money. For instance, take the 24-inch "Gates-A-Jar." One florist will estimate \$8, another will say \$15; possibly the latter is cheaper, as he would not allow the \$8 one to go out of his place, consequently the \$8 man makes his little profit, and the \$15 man has the reputation of being too high priced. If the \$8 "Gates" pleases (which it may), the florist has possibly made a number of new customers by the operation, and the \$15 man has nothing to stand on, as far as that order is concerned, but his dignity, "which won't buy the baby a frock."

The other day one of the young men in our store was making a cheap bouquet for a man who was waiting for it, who, by the way, was suggesting what to put in it. I thought the thing was very ugly. At this moment a lady customer came in, one that we had served for a number of years, always taking the greatest care in filling her orders. To my surprise she thought that the bouquet which the young man was making (and I felt secret protest) was beautiful, and wanted one just like it. If we had ever sent flowers to her in that shape we would have thought it justifiable for her to have withdrawn her patronage.

Frequently in addition to the flowers bought we will put several sprays of maidenhair fern, smilax or some other green in the box. I was surprised one day by having a lady say to me, after having left an order, "Please do not put any ferns in. I would rather have extra flowers." I was entirely at a loss to know what she meant, and said, "Beg pardon, madame, I do not understand." She said, "I bought some flowers here the other day, and you put some maidenhair fern in, and I thought that if that was your practice I would rather have that amount in flowers." That, we think, is "looking a gift horse plumb in the mouth." Much like another case which happened more than once. A very particular customer orders a dozen roses; the salesman counts out thirteen, when the customer will point at one which does not come up to the standard. The salesman, counting them over carefully, will lay this one aside, and say, "I had put thirteen in." I have then heard the customer say, "Oh, all right, put it in," and would feel quite injured if it were not done. Then again, somebody wants as large a bouquet or box of flowers as can be had for little money. You use your best judgment, and after being as generous as possible they will say, "Can't you put some roses in?" Another wants 10 or 25 cents' worth of flowers, and after trying to please you hear, "Oh, won't you put some smilax in?" and nothing less than a quarter of a yard will satisfy them. If you are generous with these people, and it surely is your desire to

please, your generosity is oftentimes abused, as they expect quite as much, if not more, the next time they come, and if they do not get quite so much they are displeased and you lose a hoped-for customer.

No one that has not stood behind a counter, taken orders, made contracts, ordered and bought flowers, received and arranged them, knows what the retail florist has to contend with. For instance, we know that a certain grower has a crop of flowers (say hybrids). A customer comes in, and you see an opportunity to use some of these flowers to advantage; you take an order several days in advance, feeling very sure that the crop will hold out that length of time. What happens? Several of your competitors have thought the same thing, and where you had hoped to get all that you wanted, a short cutting has to be divided among a number; dull or cold weather is the excuse this, or that was not done, and you are obliged to "hustle."

Now, as to wild flowers and fruit blossoms: Everybody that has been through the "mill" knows how carefully these orders have to be taken; a spring shower will upset all of your plans; the flowers have to be caught "on the wing," or they are useless.

As a florist take two dozen buttercups, put them in a light blue vase, place that vase on a little gold and white table, with a light blue scarf thrown across the top of table, put that table in an appropriate place as to position in the room, with proper background, and if you send in an itemized bill (as is often necessary) for two dozen buttercups at twenty-five cents per dozen, fifty cents, in many cases you will be confronted with the statement, that they are "sorry" that they did not get their man good and early, and that of buttercups. Charge these people a fair price for the idea and execution, and you would have few charges to make them in the future. No, there is very little encouragement for such work, and in many cases this is why the florist would suggest, say a dozen roses for the same vase, and in most cases the customer would rather pay much more.

There is no business that is more exacting as to time; the retail florist is constantly on the alert for trains, weddings, funerals, etc., while the grower often thinks it a hardship if he is obliged to make an earlier train than usual.

Then at Christmas, Easter, or on any other day when you expect to sell a great many flowers, you are not only obliged to take more than you want a number of days or weeks before, but you are obliged to pay exorbitant prices on the day, or really the day before; you are obliged to work all night at these times and consequently have to use the greatest care in selecting the flowers that they may look well the next day. A few of the growers have "salted" their flowers for several days previous, and when this is done, one hundred roses received, does not mean eight dozen salable roses to the retail dealer. I am glad to say, however, that many of the growers are commencing to realize that it is not advisable to put the screws on too heavy at such times.

Another feature that the retailer is obliged to contend with is, the poor packing of some of the growers; many of them handle such flowers as violets and carnations, as if they were potatoes, but the retailer sees the consequences, and knows that the small petals of the purple violet feels a bruise quite as much as some

of the other flowers that show it a little more quickly. A RETAILER.

Vase of Hardy Tree and Shrub Bloom.

A glance at this vase shows how easy it is to get up a simple and effective flower decoration when hardy trees and shrubs are in bloom. Here are shown only three kinds of flowers, namely, spring blooming tamarisk (Tamarix Africana), wild cherry (Prunus serotina), and hybrid magnolia (M. Soulangeana), but a hundred others are just as available.

A word about tamarisk shrubs: The catalogues record a good many names; even the "Dictionary of Gardening" has several, and we have got and tried plants of most every name given, but among them all I fail to recognize more than two species, namely, T. Africana, the spring blooming one, and T. Chinesis, which has glaucous foliage and blooms in August and September.

The Africana tamarix forms a tall, willow-like shrub, and its last year's growth is feathered all along with racemes of very small pink flowers that appear before the foliage and are in their finest condition with us about May 20-25. After the plants have done blooming we cut them hard back to keep them stocky and shapely and then let them grow at will for a year. As the Chinese tamarix blooms on the current season's wood and never on the old wood, we prune it in winter and never after growth begins in spring.

These tamarisks strike from cuttings of the ripe or old wood as freely as do willows. And in either case we always save the tamarisk prunings for stakes, for the growths are long, very clean and even in size, and the wood, unlike one-year-old shoots of most anything else, is hard, wiry and lasting when cut.

The wild cherry is abundant everywhere, and is in its finest bloom about May 25. The European bird cherry (Prunus Padus) is much like our wild cherry, but blooms fully a fortnight earlier, being at its best with us about May 10; and there is a double flowering variety of this that for cut flowers is more showy than the typical form.

The magnolia belongs to the obovata section; that is, the class that blooms in April before the leaves appear, but for some reason or other, probably its hybrid origin, this one (M. Soulangeana), which is at its best with us about April 25, continues to bloom more or less after the leaves appear till June. And this is why we find it—flowers and leaves as well—associated with the tamarisk and wild cherry in the vase.

One of the recent new things among trees and shrubs is a weeping form of the wild cherry. W. F.

Hardy Primulas.

The really desirable primulas hardy in this country are very few in number. There are two species, however, whose merit cannot be gainsaid, namely, P. Japonica and P. Sieboldii. The former is a strikingly handsome plant. It was introduced to English gardens from Japan some twenty years ago, and produced quite a sensation in horticultural circles at that time. Singularly enough, the plant was first described by the late Dr. Asa Gray, from material collected by Mr. Charles Wright, a botanist of Connecticut, now also deceased. It is of bold habit, with spatulate, toothed, pale



VASE OF HARDY TREE AND SHRUB BLOOM.

green leaves from six to nine inches long and from two to three inches broad at their widest part. The flower stem attains a height of from eighteen to twenty-four inches, and bears several whorls of dark purple flowers over an inch in diameter. There are some varieties producing white, pink and lilac-colored blossoms. *P. Japonica* flowers very freely in

this country during May and June, when given a favorable situation, and ripens seed in the greatest abundance.

P. Sieboldii is a still more beautiful species, and sometimes called *P. cortusoides amana*, but more generally known under the former name. If a variety of *P. cortusoides* it is certainly a very distinct one. The fact, moreover, that *P.*

cortusoides is a Siberian species, and *P. Sieboldii* a native of Japan—whence it was introduced in 1865—tends to weaken their supposed affinity. The leaves are oval or oblong, coarsely toothed, pale green, and four or five inches long, with petioles of similar length. The scape is about twelve inches high, bearing in a cluster at the top from six to a dozen

bright, crimson, white-eyed flowers two inches across. Four forms of this plant were introduced originally, the others differing from the type in their flowers being white, creamy white, and lilac. A large number of splendid new varieties have been raised from these by growers in England and in France. P. Sieboldii does not produce seeds very profusely, and it is therefore a matter of some difficulty to obtain new varieties. But, on the other hand, P. Japonica seeds quite freely, and yet new varieties of that species are extremely shy in making their appearance. Perhaps the latter plant has not been given the same attention in this respect as P. Sieboldii, which blooms earlier by a week or two.

These primulas have a strong dislike to anything approaching stagnant moisture about the roots, and thrive most satisfactorily in slightly elevated and partially shaded parts of the rock garden. Their ideal soil is a mixture of fibrous loam, leaf mould, old manure, and coarse sand in equal parts. They should be planted in large masses to secure the best effect, devoting, when practicable, but one variety to a single mass. A little watering with withered leaves, applied late in autumn, will afford ample protection to the plants during winter, and it should be cleared away before the growth has had a chance to push up through it in the spring.

P. Sieboldii may be readily propagated by dividing the little rhizomous roots early in spring before growth commences and planting them in a cold frame, where they may be protected from frost, using rich, sandy soil. Allow them to remain in the frame until they become strong plants, when they may be transferred to the open garden. P. Japonica can be increased in the same way, but the seeds afford a better means of propagating this species. These should be sown immediately after gathering, in pans filled to within half an inch of the rim with good soil, pressed so as to leave a firm and level surface. Sow the seeds evenly, cover lightly with fine, sandy soil, and again smooth the top by gentle pressure. Now immerse the pans in water, holding them just below its surface, until the soil becomes thoroughly saturated, when they may be placed in a cold frame. Keep them close and shaded until germination takes place, when air may be admitted, gradually increasing in volume, and the shading withdrawn as the plants strengthen. Transplant in a cold frame containing suitable soil when large enough to handle conveniently, and they will with ordinary carefulness become good-sized plants before winter. They are still tender, however, and will require protection until the following spring, when they may be removed to their final quarters. Seeds of P. Sieboldii, when obtainable, should be treated in the same manner.

M. BARKER.

Cambridge, Mass.

Gloxinias.

T. J. B. writes: "My gloxinias have been at rest for six or eight weeks, the pots being turned on their sides to keep the 'roots' dry, but I see the plants are again starting to grow. Should I now bring them to the light and encourage them to grow?"

No. Don't try to get two crops of growth and two crops of flowers in one year from gloxinias; if you do the probabilities are that the second growth will be unsatisfactory and the crop of blossoms quite disappointing. Better give the "roots" a long rest and discourage their

tendency to grow by every legitimate means before next winter or early spring. Gloxinias starting to grow so soon as yours are doing is nothing unusual, but discourage them. If they have grown so much, however, as to shrivel the "bulbs" give them a little water now and again, but on such a stinted scale that while it may serve to keep the "bulbs" plump it will not excite much leaf growth. W. F.



Orchid Notes.

BY WM. FALCONER.

CATTLEYA GASKELLIANA.—We have Cattleya Mossiae in early summer, large, showy and of a good many tints, and now when the Mossies are about past in comes this, one of the loveliest of all orchids. It is exceedingly free blooming, and its blossoms are very large and delightfully fragrant and they have good keeping qualities. We have also the pure white flowered variety, with a saddle shaped yellow marking on lip—in bloom, and it grows and blossoms as freely as the rose purple forms and is as fragrant.

CATTLEYA ELBORAL and its varieties come from Elbor, and they bloom all summer long. The flowers are white, suffused with rose or purplish rose, and the lip has a yellow throat and magenta or deep violet purple marking near the front. But the flowers have not got the bold, open appearance of many others of our fine cattleys.

CATTLEYA SUPERBA is also a summer blooming orchid from Brazil. It is only a medium sized species, but it has beautiful, deep, rose purple flowers, with magenta crimson lip. A desirable plant, but not so easy to grow satisfactorily as is C. Trianae or C. Mossiae.

DENDROBILUM (now called Platyclipsis) filiforme, the little golden chain orchid, a charming species from the Philippines, is also in bloom. The plants are naturally of small proportion, but they are profuse blooming, the flower stems are erect, long and wiry, with the 6 to 9-inch long raceme of flowers which terminate each, drooping, limp and perpendicular. It is a choice and little gem, and easily grown.

EPIDENDRUM NEMORALE MAJIS is also a very beautiful summer blooming orchid. It has long, stout, wiry, arching spikes, with a panicle cluster of large, rose-lilac flowers at the end of each. It is a Mexican orchid, and lasts in bloom a long time.

Vase of Hardy Flowers and Foliage.

Here we have a comely combination of hardy plants—flowers and foliage. The fleecy pink wanders of the African tamarisk, the white, fragrant Florentine iris, and young, leafy sprays of the crimson leaved Japanese maple.

The tamarisk is in fine bloom near the end of May and the iris at the same time. This iris is one of the handsomest and boldest of early blooming kinds and perfectly hardy; its white flowers have a tinge of blue in them, and they are fragrant. Indeed, the rhizomes of this plant are used in the manufacture of some kinds of perfumery. It is well worth growing for cutting, but like most all other irises

its blossoms last for only one day. And in the way of irises don't miss I. pallida, blue, and one of the largest and finest of all as well as the thiftest of the rhizomatous sorts. But the ephemeral nature of iris blossoms will always be a barrier to their popularity as cut flowers except for home use or immediate want.

The foliage of the Japanese maples, however, is very suggestive. Leafy sprays of these elegant maples have a fine effect when used with cut flowers and they are much esteemed by refined people. These maples—the polymorphous, not the Japonica section—are shrubs only with us, but they are of a dense branching nature and very leafy, and according to variety the foliage is large or small, broad or narrow, simply palmate or exceedingly finely cut, and in color may be plain green or clear crimson or variegated, and the coloring always is deepest in spring. The typical kind is raised from seed, and the varieties are "worked" or all may be easily raised from layers. The Japanese maples are among the loveliest hardy shrubs we have got, and root well and transplant well; indeed, I never hesitate to transplant large specimens in full leaf in summer short distances, providing I can carry the full ball of earth and roots and give them a barrel of water after planting them. But while young plants are very beautiful, old specimens take the Japanese "dieback" and whole limbs will die out here and there all among the plants in summer. But don't let this deter you from planting Japanese maples. We can enjoy beauty and refinement undisturbed for a dozen years, may be twenty. W. F.

Floriculture in Central Texas.

We are having now, here in central Texas, a very hot and dry time. It is very hard work to keep plants alive out of doors. The temperature in the houses with all the ventilators open, runs each day from 95° to 106°, one day to 108° in the shade. Geraniums, feverfews, dahlias, colous, and even roses are dying with the heat, although watered every evening. From the middle of June to the end of August the sun burns up many of our flowers, and takes the color out of foliage plants.

Alternantheras are a dead green, acalyphas are without variegation, achyrantes are rusty and shriveled, crotons have all died—out doors. Cannas and other tuberous rooted plants can only just hold their own against the heat.

The plants that almost defy the hot sun here are the following: Abutilons, hibiscus, heliotropes, lantanas, petunias, and vincas.

The Cyperus alternifolius makes a fine plant outside, equal in effect to a palm. I had a lantana that stood through the winter of '89 and '90 out doors, but it was killed to the ground last year. It made a plant 4 feet high and 16 feet by 12 feet across. I also had a double white petunia that bore over 2,000 flowers from April 15 to November 15. It was planted out from a 3-inch pot on the 15th of April, and in November measured over 4 feet across.

It was cut down by frost about the 10th of December, but bloomed again in January, when I took about 100 cuttings from it. It was finally killed by a frost in March, which was the worst frost of all last winter.

We get our best flowers out doors here from the 1st of September to the middle or end of November. Last fall I cut roses from Her Majesty, Magna Charta, Bar-



VASE OF HARDY FLOWERS AND FOLIAGE.

ness Rothschild, Paul Neyron, and M. P. Wilder from $4\frac{1}{2}$ to 6 inches in diameter, and from the teas flowers from $2\frac{1}{2}$ to $4\frac{1}{2}$ inches, and these by hundreds, perfect in every way.

I am trying to work up a stock of plants adapted to our hot, dry climate. As we are so often left when we try those plants that are said to stand the hot sun of the northern and middle states.

People from the north often come to me for the plants they have been used to at home. Some want pansies now in July, the last pansy having died out with us a month ago. Others want to plant out rhododendrons or hardy azaleas, things that never lived through the first summer after planting here.

I read the notes in the FLORIST on the tuberous begonias. I used to grow them

at home in England, but fail with them here. I have tried them both in doors and out, in the sun and in the shade. They would grow on till June, and then they would die out in a few days, so I have had to give them up. If the readers of the FLORIST can name any plants that will do well for bedding or planting out in central Texas I would be glad to hear from them through your paper. Agaves,

vireus, caeli and the like, of course, are well known here. WM. CROWE.
Corsicana, Texas.



Rooting Cuttings in Summer.

Between the 21st and 25th of May I put 4,000 Lamborn cuttings in a sand bed out of doors, partly shaded by shrubbery and wholly by muslin covers, through which most of the water was given. I was surprised to find that I could hold the temperature down to 74° in the sand when the atmosphere was 85°.

The cuttings were of very good and in the language of one of my florist friends, not "polluted by steel." They were kept moderately wet, and covered during the greater part of the day for four weeks, when the covers were removed. At the end of seven weeks I took out a little over 1,300 plants. Not very heavy, you may say, but the experiment was not expensive, and utilized material that would otherwise have been wasted. I think it well worth further trial. I would like to hear from anyone else who has tried rooting carnation cuttings in midsummer. EDWARD SWAYNE.

Kennett Square, Pa.

Clerodendron Thomsonae.

This is a greenhouse vine of great merit and we can have it in bloom any time of the year we choose. By growing it in pots, tubs or boxes, and resting it in water by keeping it pretty dry, then pruning it in towards spring and a little while after, giving it more water and heat, we can have it in fine bloom in summer. Or by resting and pruning now we can have it in bloom in winter. Summer or cool-grown flowers last fairly well when cut, but the winter flowers, especially when young, are apt to wilt badly when cut; to prevent this wilting after cutting the flowers I cut out most of the foliage from among the panicles. But freedom in the greenhouse in summer what a splendid show this *Clerodendron* makes! Cut it in, twine the old stems around a cylinder-like trellis or some stakes when housing other plants begins, and remove it to some convenient corner where it will take up little room and won't be much in the way, to stay there over winter. Of course if you grow it for flowers in the winter it has got to have good house room. It may be propagated from root cuttings or cuttings of the young wood, or branches may be heeled into the ground to root as layers, and seedlings frequently spring up on the ground about where the old plants have bloomed and seeded. W. F.

Summer Flowers for Cutting.

In the paper upon this subject in your July 16 issue *Achillea ptarmica* fl. pl. is highly recommended. The newer variety, "the Pearl," is far better and those who try it will have no further use for the old variety. *Anthemis tinctoria* I think combines more good points than any other yellow flower. It is perfectly hardy (it is a perennial), commences to flower early

and continues to produce a great abundance of flowers on long stems until quite heavy frosts come in the fall; both rays and disk being of a brilliant golden yellow and daisy-like in form. Of the *Helianthus*, *H. latifolius* is the best single flowered variety we have ever grown. It continues in bloom longer than most others, has very long stems and the color is good. Few flowers are more showy than the striped French marigold and its other points are good. WM. F. BASSETT.

Hammonton, N. J.

Acalyphas

Amongst the large number of plants employed in bedding out, none are more effective and satisfactory than the acalyphas. Their splendid and uncommon appearance, their brilliant and dressy effect, recommends them to all lovers of beautiful foliage as desirable and exceedingly showy bedding plants. It has been generally and erroneously supposed that they were tender and unfit for outdoor planting, which is quite a mistake; they are a good deal more hardy than coleus. During the latter part of May we had a protracted season of cold nights, when the thermometer touched 33°. Coleus suffered severely, especially Golden Beder, which was almost entirely denuded of its leaves. The acalyphas, on the contrary, did not suffer the least harm, and are yet retaining the leaves that were on them when planted out.

Their propagation is almost as simple and easy as that of coleus; the young tips or hardwood can be propagated with equal facility in ordinary bottom heat, the young tips growing more quickly into good plants. This is a plant that only requires a good introduction to the public to command large sales, when seen in good health and color, which can be easily accomplished by growing them in a sunny house and in a soil and temperature that will grow coleus. When seen in this condition they cannot fail to be admired by everyone. Mealy bug is the only insect enemy that has troubled them with me so far, and they are not nearly so subject to it as coleus and much easier kept clean.

A. Macleana, A. tricolor, and A. marginata are the best that have come under my notice. A. marginata has pale green leaves deeply margined with pink, but is less desirable than the two preceding on account of its habit, which is more straggling than the others.

JOHN DALLAS.

[The acalyphas are now used for bedding work at Lincoln Park, Chicago, and are very effective.—Ed.]

Geraniums—Cost of Production.

Very few florists who grow a general collection of plants can tell exactly what any particular class of plants cost him to grow. About the worst paid plants that anyone can grow are geraniums.

The writer's practice has been to put in cuttings in August and September, when material is plentiful; when these cuttings are rooted they are not potted, but are set in benches or in boxes (such as we use for bulbs, about three inches deep and of any size convenient to handle) thus they are condensed as much as possible and are kept on a high bench near the light until the last of November, and some as late as the first week in December, by which time chrysanthemums and cosmos are cleaned out, admitting of other changes, which gives more room. The geraniums are then potted, first in 3-inch and finally

into 4-inch pots, in which latter they remain till sold in spring.

I don't say this is the best way to grow geraniums, far from it, but it is the cheapest way I have found, to produce plants that have to be sold cheap. They are a staple article, and every florist who does a retail business is obliged to have them. As for profit, there is none in them, either at wholesale or retail prices; but they help to sell other plants, as every salesman knows.

A house 100 feet long, with two benches, each four feet wide, will hold 3,200 plants in 4-inch pots, allowing four plants to the square foot. It is easy to figure up the sum of the value at whatever price they sell at. I know there are men who will put from four to five thousand plants on the above mentioned space, but everyone knows the effect of such crowding is not profitable in the end. The above, of course, has reference only to the main crop; choice or scarce kinds are propagated all through the winter.

By way of comparison let us suppose that a crop of rose plants occupy the house instead of geraniums. The same space that will hold three thousand geraniums will accommodate, in the same sized pots, 5,000 roses. They can be set so much closer together without injuring each other. Besides, the cuttings of roses can be rooted, potted, nursed and potted again in half the time that the geraniums require from the start. The value of geraniums at 8 cents is \$250, while the roses at 10 cents are worth \$500, supposing all are sold in each case. Of course, it can be easily understood that neither of the crops referred to will occupy all of the house during the whole period of their growth; other crops can be grown in part of the same house for at least a portion of the time.

Other crops might be cited by way of comparison; for instance, carnations, for cut flowers will give about the same returns as the roses, but the carnations occupy the benches nine or ten months, or so long that no other crop can be grown in the same house within the year.

Other men may give clearer views and more definite statements; I have just jotted down my thoughts on the subject after reading the note in the *FLORIST* of 9th inst. E. FRYER.

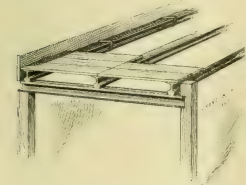
[We are much obliged to our correspondent for his thoughts upon this important subject. We trust that they will set others to thinking upon the matter and that as a result we shall have their views also. There is no more important matter before the trade to-day. Prices have been cut to such an extent that actual figures only will show when bottom has been touched and a crop nets a loss instead of a profit. The only remedy for reckless cutting of prices is to educate the mass of growers to a realizing sense of the position they stand in, and to show them where the line of demarcation between a profit and a loss stands, that they may know when they have cut below it. It is for the more enlightened to educate the ignorant and unthinking, not for the benefit of the latter alone, but for the general good. The lowest price makes the market, and the ignorance of one operates against all the rest.—En.]

Allamandas in Summer.

Many of our plant houses in summer are pretty well emptied of their usual occupants, for instance the carnations are in the fields, the callas at rest, the azaleas plunged out of doors, and so on,

and this is just the time to enjoy the allamandas in all their revelry. Have command over their roots by growing them in boxes, tubs or bricked-in pits, so as to be able to keep them partly dry and inactive in winter, and with abundance of water and nourishing fertilizer in summer let them spread and run with all their might and bloom in all their golden splendor. If in tubs or boxes they can be kept in out of the way parts of the houses in winter and in summer brought forth to better quarters. And hose them well to keep them clean. Allamanda Schottii is as good as any. And in California I am told they make magnificent outdoor plants.

W. F.



HILL'S GREENHOUSE BENCH

Greenhouse Benches.

We present herewith engravings of two methods of constructing substantial greenhouse benches.

The first shows the style of bench used by E. G. Hill & Co. in their new range of houses at Richmond, Ind. The rails used were light T rails such as are used on some street car lines. The rails brought by Mr. Hill had been used on some line that had cause to change to another style of rail, and were purchased at a low price; they answered the purpose just as well as new rails. As shown in the illustration, the cross pieces are of the same sized rail only placed rigid side up, resting on the top of the front cedar post, and mortised into the other cedar post at the back. The three rails that run lengthwise are placed bottom side up, so as to allow a broad, flat surface for the slates or other bottom material to rest on. The rails are held in proper position by pieces of board cut so as to fit in the spaces between them. But it is necessary to hold them in place only long enough to get the slates or other bottom material in position. The cedar posts are sunk 18 inches in the ground and are placed 8 feet apart, but Mr. Hill thinks that they might just as well be 12 feet apart as 8. The side board is held in position by galvanized iron strips which pass through two slits in the board and clasp around the outside rail. These are placed 4 feet apart. This is the weakest point about this style of bench. The rest is as solid as a rock, and Mr. Hill confidently expects his benches to be just as solid 25 years hence as at present. The rails cost him 1 1/2 cents a foot, and while the first cost is very considerable, even after having been in use for many years a good share of the amount can be gotten out of them by disposing of them for the price of old iron. For the center benches the same system is followed, the rails being placed at a proper distance apart to suit the size of slate, etc., used.

The second illustration shows the style

of bench in some of the houses of Mr. R. J. Mendenhall, Minneapolis, Minn. Two pieces of large angle-iron, about 3x3 inches, run lengthwise of the house on brick piers set down about 8 feet apart, and for the bottom short boards are placed crosswise. The illustration makes the matter quite plain.

Principal Toronto Hotels.

NAME.	CAPACITY.	RATE PER DAY.
Queens Hotel, Headquarters, 75 to 92 Front St.	300	\$3.00 to \$4.00
Rossin House, King and York Sts.	250	3.00 to 4.00
Walker House, Front and York Sts.	230	2.00 to 2.50
Palmer House, King and York Sts.	250	2.00
Arlington Hotel, King and John Sts.	200	3.00 to 4.00
St. James Hotel, 15 York St. (opp. station)	50	1.50
Albion Hotel, Market Square.	300	1.00
Elliot House, Church and Shuter Sts.	150	2.00
Hotel Metropole, King and York Sts.	75	2.00
Avondale Hotel, Queen and Wellington.	50	1.50
Richardson House, King and Spadina.	100	1.50
International Hotel, Front and Simcoe.	200	1.50
Black Horse Hotel, Front and George.	125	1.00
Russell House, 215 Yonge St.	50	1.50
Power House, King and Spadina.	90	1.50
Schiller House, 120 Adelaide St. E.	50	1.00
Lakeview Hotel, Parliament and Winchester.	75	1.50
Keachie's Hotel, 30 King St. W.		(European)
Empress, Yonge and Gould.	100	1.00 to 1.50

The majority of the above hotels are in the business portion of the city, the center of which is about one and a half miles from the convention hall in the Horticultural Gardens. Street cars pass the doors of all of them, making communication between hotel and hall quite easy.

Members wishing to secure accommodation before hand will do well to communicate early with Mr. J. H. Dunlop, 1 McKenzie avenue, Toronto, Ont.

Philadelphia.

Business for this season of the year is fairly good. During the past week there has been considerable funeral work, and seashore and country orders have helped to use up the colored flowers.

Sweet peas are plenty and sell for 25 cents a hundred; carnations, \$1; roses, Perles and Nibels, are selling for \$2 and \$3 a hundred, while La France and Brides bring \$3 and \$4.

Mr. Charles F. Evans has been spending a part of his vacation in the neighborhood of Toronto, and speaks very highly of this city, and predicts a good time for those who will attend the convention.

Mr. Charles H. Fox has removed his establishment from the southeast to the northeast corner of Twenty-first and Columbia avenue. His new store is large and roomy, and presents a very attractive appearance.

Mr. George Craig is making extensive alterations at his store on Eleventh street, below Walnut. A large bulk window is being put in, which will be fitted up with inside sash and arranged to show oil cut flowers in the best possible manner. We understand that the bachelor button will be a corner all to themselves.

It is rumored that the "Crape pullers" have formed a sort of trust or combination. They have divided the city into three districts, up-town, down-town and middle; they are not to encroach on one another, and in this way many a car fare

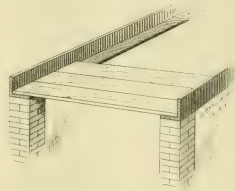
will be saved, and in the absence of competition better prices obtained. One of the principal firms of the trust makes his tour every morning in a carriage, and generally succeeds in getting quite a lot of orders.

X.

Toronto.

The flower show held by the Toronto Electoral District Society the 22nd and 23rd insts. was a great success both as regards the quantity and quality of exhibits and attendance. Orchids and nepenthes figures to a considerable extent, a class of plants which in former years have been conspicuous mostly for the small number exhibited. Mr. John Chambers, Exhibition Park, Wm. Houston, Central Prison, and Mantion Bros., Eglinton, were the principal exhibitors in that line. The new and rare section for which there were 4 entries, brought out some good things and attracted a good deal of attention. Ferns were in fine feather; both florists and gardeners brought some grand specimens, a Nephrolepis exaltata shown by Mr. G. Vair, to all appearances beating the record. Platycerium grande, by the same exhibitor, was very fine.

There was a very large show of both flowering and foliage stove and greenhouse plants. Among the former were Bougainvillea speciosa, Allamanda Schottii, Lagerstroemia indica, Clerodendron Balfourii, etc., all fine plants. Among the latter worthy of special mention were immense Pandanus utilis and P. Vitchii (Mr. John Thorpe probably will remember these), Alocasia metallica, crotons, anthuriums, etc. Palms both big and little were every where.



MENDENHALL'S GREENHOUSE BENCH

For the most tastefully arranged table Mr. John Cotterell, of Deer Park, most deservedly took the cake, but a table by Mr. W. J. Laing in an altogether different style to any of the others and in my humble opinion more natural and artistic, would with a better class of plants than was used have been "A1 copper bottom."

Cut flowers, designs, etc. I am afraid to go into. It must suffice for me to say that the exhibit was much larger, more artistic and altogether better than in former years. It was remarked by one who was there that it was quite up to the show last year at Boston during the convention.

Here is another hotel—the old Revere house, pulled down and built up again in modern style and now called the "Kensington." European plan, 50c, 75c and \$1 per day.

The bowling alley secured for the use of the S. A. F. bowlers will be in the Victoria Club building. The executive committee will remember visiting this place during their afternoon sleigh drive in January last.

E.

Boston.

The annual excursion of the Gardeners' and Florists' Club took place on Tuesday, July 21. About one hundred and fifty participated, some forty of this number being the wives and lady friends of the members. It is safe to say that no excursion of the club has ever given more general satisfaction or been productive of greater pleasure to the participants than this one. Being the first occasion of the kind in which the company of the ladies was permitted, some doubt was expressed by the boys of the success of the experiment, but if the testimony of those who went is accepted it is probable that the ladies will never be left out of the program again. The barge "Clifford" was secured for the trip and the course was down through the harbor beyond Nahant and back by Boston Light and Hull to Weymouth Landing. A lunch was served on the boat during the forenoon and dinner was ready at the grove on the arrival of the party. Base ball was the center of attraction for the younger element after dinner and the gardeners beat the florists by the safe score of 18 to 1. The bowling alley and the dancing pavilion were both well patronized, acceptable music being furnished by Hayden's band. A stop was made at Long Island, where the veteran John Galvin was taken aboard, and after cordial greetings was induced to favor the company with his inimitable song, "Maloney Don't Know that McCarthy is Dead."

On the way down Mr. Foster kindly pointed out to his friends the spot where he took his involuntary bath a week previous. In this connection Mr. Foster is not satisfied with the recent account in the *Flourist* of this adventure. He says that he had no "misunderstanding with the boom," but that Skipper McCarthy did maliciously and with mischievous intent deliberately cause the boom to swing around and strike him amidships, the result however being the same, viz., that he went overboard, mackintosh and all.

The garden committee of the Mass. Horticultural Society, accompanied by a number of their friends from the fruit, plant and flower committees to the number of twenty-five, had a very pleasant excursion on July 22 to Wood's Hill by invitation of Mr. J. S. Fay. Mr. Fay has exhibited, through his gardener, Mr. M. H. Walsh, at several of the recent shows in Horticultural Hall some extraordinary roses, pansies and hollyhocks, and it was a most gratifying opportunity to go and see where and by what means such remarkable specimens were grown. The visitors were hardly prepared for the display of hollyhocks which met their gaze. Such a collection, such variety of coloring, such perfection of bloom and such strong luxuriant growth was certainly a surprise. A photograph of one of the groups was secured by Mr. Fewkes, which will probably appear in a future number of the *Flourist* and will give a better idea of the display than any verbal description can convey.

Mr. Fay points with commendable pride to an area of about five hundred acres of what was thirty years ago barren sandy sea-side hills, which is now a dense luxuriant forest of pine, spruce, oak and maple, all the seeds of which he had planted.

The visitors were escorted over the grounds and after partaking of a delicious lunch were given an opportunity to inspect the hatching houses of the U. S. Fish Commission, which proved to be very interesting.

The Saturday exhibitions at Horticultural Hall during July have been made very attractive on account of the large contributions of hollyhocks from Mr. Fay, which have taken first premium in every instance.

The displays of native ferns by Mrs. P. D. Richards, R. T. Jackson and I. E. Coburn on July 25 were very complete and were specially interesting because correctly and legibly named. There were in Mrs. Richards' collection 51 distinct species and varieties.

A rare and showy plant, *Veltheimia purpurata*, bearing large heads of bright orange vermilion flowers, was shown by Wm. J. Martin.

A new and very beautiful rose has been received at the Arnold Arboretum. It is supposed to be *Rosa Wichuriana*. The flowers are single, white, and closely resemble the Cherokee, but are disposed in long racemes, the branches trailing on the ground. The foliage is beautifully glossy. W. J. S.

Chicago.

Mr. E. Boettner, of Weinhoebler & Co., started July 24 on a two-month's trip to Europe. He sailed from New York Tuesday on the Bremen Line Steamship Werra.

Mr. O. P. Bassett and wife have returned from a three-weeks stay at St. Clair Springs, Mich.

The rate from Chicago to Toronto and return at the time of the convention will be \$16.60. Train will leave Dearborn station at 3 P. M. Monday, August 17, and reach Toronto Tuesday at 8:45 A. M. Special sleeping cars will be provided and there will be no change of cars. The route will be via the Niagara Falls Short Line and the Canadian Pacific. Florists west and northwest of Chicago are invited to travel with the party from this point.

It was expected that the director general of the World's Fair would have named the head of the division of floriculture before this, but up to Tuesday morning no official action had been taken. However, it is conceded on all hands that Mr. John Thorpe will be the man, and the appointment will undoubtedly be made before the week is out. Mr. Thorpe is in the city, and has had frequent conferences with the director general.

Among recent visitors to the city were C. B. Whitnall and wife, F. P. Dilger and Adam Curran, of Milwaukee; D. W. Fowler, Wabash, Ind.; R. B. Currey and Edward Gilliam, Nashville, Tenn.; F. Bertermann, Indianapolis; Chas. W. Garfield, Grand Rapids, Mich.; John Walker, Philadelphia; W. L. Morris, Des Moines, Ia.

The ball game at Niles Center last week was a great event. See report elsewhere.

Sports.

Chicago.

It was a symposium in all colors—black and blue. Chicago, 7; Niles Center, 5. Here is the book:

CHICAGO.	NILES CENTER.
Curran.	Kirscht.
McCollom.	Downes.
Kelley.	J. Poehlmann.
Zeck.	A. Poehlmann.
Bock.	M. Poehlmann.
Hartwirth.	Sport Ambiguous.
Kreiting.	Schwiger.
Kemmler.	Kerstädt.
Walz.	Harrer.

Chicago went to the bat. There were two umpires. They were Dick Cogan and the only Joe Curran—Cogan in pink and Joe in black and brown. Joe's um-

brella was the black part of him. Of course, everybody could see that Cogan was not from Chicago, and that marigold blue and yellow fellow Zeck attempted to get Cogan behind the scenes, but Cog said, "Not while I am as pink as this," and Zeck then went to fourth. Cogan was doing the ball end of the string at this time, but Joe Curran was standing on first, or about there, with his umbrella well open. Johnny Walker, from Philadelphia, said, "Did you ever see the Mikado? If you never have seen him, there he is over there with that decomposed piece of coloring over his head."

Everybody kicked at the decisions of the umpires and it was right to kick. But of all the fellows I ever met and could not admire was Scorer Burdall. The way he kept score and the way he tried to influence our Joe and Cogan was suggestive of a very, very dark purple. And then it was said that this same scorer made a first class crystal white pitcher out of a stem winter in three months and Burdall when attacked took out his harmonica and played "Annie." The way Burdall scored would not suit either Anson or Ewing, but he scored and scored for Chicago. The Niles Center boys want a scorer with more pink in than Burdall has; that is, if they want to win the next game.

That Niles Center sport and all those Poehlmanns and Schwiger and Kerstädt and Harrer, didn't they fight! And Downes, he broke (it was told me) seven bats. I kept tab on three and a half. In my opinion, if the Niles Center boys had chosen any other colors they must have won. As it was, the pinks were washy, very washy, and the blues were a nice scarlet or yellow. You cannot win without two positive colors, Niles Center.

The Niles Center boys are all right of course, but Billy Downes with his faded American Beauty cap and his concentrated diamond pattern gum shoes, pitched; and he did pitch, but he slid better than he pitched. In the sixth inning at second everybody thought he had slid his last, but 'twas not so. His eyes wobbled and he says to Kreiting, "where's the umpire?" Dutch said, "he is taking a walk." So Downes takes hold of the string on the bag and walks in. There was another fellow in that Niles Center crowd by the name of Kirscht that pitched lurid colored balls occasionally. Fisk said Kirscht would curse Chicago, after which Kennicott and his mascot and some others walked over to the bus.

Chicago with their manufactured stem winder floral curved pitcher and with that greatest of all catchers (not excepting Buck Ewing), Jim Curran, just paralyzed those Niles Center boys. Jim went in to catch with a glove bigger than any leg of a Southdown sheep. Everybody said, "Jim, that glove will down you sure," and everybody was right, because at the end of the fifth inning he tried to bore a hole through the Niles Center catcher coming from third home. Of course he did not bore the hole, but he came very near being buried, in fact he would have had to be buried if he had died. That brown basted mutton leg glove is what caused the trouble. Afterwards he got a grey and green glove that fitted him, and how he did catch.

Phil Hauswirth was on third part of the time and some of us were cheering the scorer, but by accident Phil had nothing to say at a supreme moment when a ball wended its white wings toward him and he did catch it, then he accidentally threw it to first and made a double play.

Joe Curran winked his umbrella and the side was out of course.

Bats broken: Niles Center 7, Chicago 2½.

At about 6 p. m. the Chicago boys left for home and after their departure the quiet little town of Niles Center was observed to bear that rich and warm glow of color that we find in the flowers of Salvia splendens. By the way, John Thorpe says this flower comes as near to being a true red as anything he can think of, and John ought to know.

The Chicago boys wore red.

MOKOMO.

No business of importance was transacted at the last meeting of the Florist Club. Mr. John Thorpe was present and after some informal discussion of World's Fair matters, the meeting adjourned to the bowling alley, where some very creditable scores were made. John Weston, who had rolled only a few games, amazed the old-timers by putting up a score of 180, and J. C. Vanghan led his side by a score of 175. J. D. Reynolds was on his muscle and accumulated 177 as the result thereof, and G. L. Grant had consecutive scores of 215, 216 and 225 to his credit. Mr. Thorpe rolled the prettiest ball and got lots of pins too. Frank Bentley has allowed his mind to run so much to base ball of late that his bowling was mainly balls and but few strikes, and Phil Hanswirth's game was also below his standard, probably from the same cause. But Phil made one good score—closely approaching the 200 mark.

Philadelphia.

The florists' base ball team, composed of city florists, paid a visit to Riverton last Saturday for a game with the H. A. Dreer team. Both teams were anxious and played ball from the start. Cartledge made a great one-hand catch in left field, and handled the stick well. Dreer's boys batted well and stole bases with impunity, Finnegan being very dexterous. Dreer's boys gained a lead of seven runs in the third inning but were obliged to give up the ball to the florists, who finally won the game by hard hitting and good base running.

THE SCORE:

	1	2	3	4	5	6	7	8	9
Dreers.....	4	3	0	0	1	3	2	3	16
Florists.....	0	0	0	6	1	3	6	3	x-19

Messrs. Harris, Smith, Farson and others, who happened to be at Riverton, were very hospitably entertained by Mr. Eisele, Mr. Dreer's foreman. A hasty look through the houses revealed an immense stock of young palms and ferns; there really seemed to be almost enough to supply the whole country, and yet by far many varieties will have been sold out.

The return game between the H. A. Dreer and Robert Craig base ball clubs came off on the 18th inst., on the latter's grounds. The weather was very unfavorable, rain falling in torrents, but at 4 o'clock it cleared off and a 5-inning game was played. The Craig team on this occasion (not being affected by any 4th of July influences), won by the comfortable margin of 7 to 1. The battery work of McLean and T. Mullen was superb, while Farrington again distinguished himself on second base. Ely caught a good game for the visitors. The "rubber" game will be decided at Riverton August 8, when some phenomenal playing may be expected. After the game the visitors were hospitably entertained and two

hours of song and story were pleasantly passed. Mr. A. Goodwin sang some good songs, including "I've Worked Eight Hours This Day" and "The Stowaway;" the latter was rendered with a delicacy and feeling that was much appreciated. Mr. Carr stamped himself an elocutionist by the manner in which he recited "The Ghost." T. Mullen danced an Irish jig and Mr. Craig gave a fine rendering of the old favorite, "Annie Laurie," all hands joining in the chorus.

THE SCORE:

	R.	H.	P.	O.	A.	E.
Craigs—						
Donohue, ss.....	2	1	1	1	0	0
T. Mullen, c.....	2	2	8	3	0	0
P. Mullen, lf.....	2	2	0	0	0	0
Kelly, cf.....	0	1	0	0	0	0
Wharton, lb.....	0	1	2	0	0	0
Farrington, 2b.....	0	1	4	0	0	0
Carr, 3b.....	0	0	0	0	0	1
Lockebee, rf.....	0	0	0	0	0	0
McLean, p.....	1	1	0	1	0	0
Total.....	7	9	15	6	1	1

	R.	H.	P.	O.	A.	E.
Dreers—						
Faunce, lb.....	0	0	1	1	1	0
Ely, c.....	1	2	6	1	0	0
Shuyler, 2b.....	0	0	3	0	0	0
Finnegan, 3b.....	0	0	1	0	1	0
Tytag, ss.....	0	0	0	1	0	0
McDermott, cf.....	0	1	0	0	1	0
Moody, p.....	0	0	1	1	0	0
Kerens, lf.....	0	0	0	0	1	0
Smith, rf.....	0	0	0	0	0	0
Total.....	1	3	12	4	4	1

SCORE BY INNINGS:

	1	2	3	4	5
Craigs.....	3	3	1	0	x-7
Dreers.....	1	0	0	0	0-1
Earned runs—Craigs, 4; Dreers, 1;					
Two base hits—Kelly, Ely. Bases on					
balls—Dreers, 1; Craigs, 2. Hit by					
pitched balls—Donohue (2). Left on bases					
Craigs, 4; Dreers, 3. Struck out—by					
McLean, 8; by Moody, 5.					
Umpires—Messrs. McCall and Eccles.					

PHILADELPHIA.

News Notes.

WABASH, IND.—D. W. Fowler is rebuilding, and adding a new rose house 20x80.

PORTLAND, OREGON.—Ryan & Baden have opened a floral store at 166 Third street.

ROCKVILLE, CONN.—Wm. F. Schmeiske & Co. have added two new houses, each 22x60.

SALT LAKE CITY, UTAH.—John Reading has added a rose house 130x20, a fern house 80x14, and otherwise improved his place.

FORT COLLINS, COLO.—This section was visited by a very destructive hail storm July 16. Some of the hail stones exceeded an inch and a half in diameter.

GLENWOOD SPRINGS, COLO.—Einzensperger Bros. have in course of construction three houses about 75x18 each, for roses, and two 100x10 each, for general stock. All are heated by steam.

NEW YORK.—The Whilldin Pottery Co., of Philadelphia, has opened a large warehouse in Jersey City, to meet the increased demand for their Excelsior and Standard flower pots in this city and vicinity.

ELMIRA, N. Y.—Grove P. Rawson has added a new house 200x20, for roses. It is a model of its kind. Roses and violets are his specialties, and he reports his plants as looking exceptionally fine for the season.

DENVER, COLO.—James L. Miller has invested in nine lots at Thirty-fourth and Downing avenues, and has now in course of construction three rose houses 100x20 each, a propagating house 85x10, packing room 85x15, an office 40x20, and basement for storage purposes. The place will be heated by hot water on the overhead system.

COLORADO SPRINGS, COLO.—Edgar Turner, for the past three years in the employ of S. D. Bradford, died July 19, aged 35 years. His death was the result of a protracted spree. Mr. Turner was a very popular young man, and possessed considerable ability. But for his convivial habits he would have made his mark. His mother and brother reside at Slough, England.

DES MOINES, IOWA.—Blair & Marshall have dissolved partnership. Mr. Marshall takes the greenhouses and Mr. Blair the city store, thus placing matters substantially as they were before the partnership was formed. W. L. Morris is building two new rose houses, one 18x100 and the other 20x100. He is also giving his other houses a general overhauling. Mr. Morris visited Chicago last Monday.

WICHITA, KANS.—Chris. P. Mueller has purchased the stock in the Fairmount greenhouses and leased the greenhouses for a term of years. He will put in a full stock of roses for cut flowers. Steinbuechel & Kuechenmeister have put up a house 20x40 for decorative plants. D. J. Chatfield, of the Fairmount Floral Co., is building some new houses at his home on College Hill. Business is very quiet at present.

NASHVILLE, TENN.—Louis Houry will build six or eight new houses this fall. Joy & Son will also make extensive additions to their glass. Mr. A. A. Newsom is removing the houses from the Rosebank nurseries to another location, where they will be rebuilt and added to. Cantrell Bros. have succeeded M. Tritschler & Son, on Hyde's Ferry Pike, and Chas. Tritschler also has a place on the same road. Messrs. R. B. Currey and Edward Gilliam visited the florists of Chicago and vicinity last week.

NEW ORLEANS, LA.—At the annual meeting of the New Orleans Horticultural Society, held July 16, officers for the ensuing year were elected as follows: Jas. Newsam, president; Chas. Eisele, president pro tem; Jno. Eblen, treasurer; re-elected; Chas. Wise, secretary, re-elected. The report of the finance committee showed the treasury to be in a flourishing condition. Applications for space at the coming chrysanthemum show are being received from different parts of the country and all indications are favorable to an excellent display.

SPRINGFIELD, O.—The Good & Reese Co. is building seven houses this summer, one 20x225 and six 20x106 each. This makes a total of twenty large houses in their plant. They are also adding another large steam boiler. Mr. John Doyle has started to build on North Limestone street. His many friends wish him success. Mr. W. B. Mead has built a new range on the Selma pike, and Messrs. Wilson Bros. are adding three houses 20x100 each and putting in a steam boiler. This city is famous as a rose center, distributing over a million roses each year, mainly to amateurs. Quite a number of the florists of this city will attend the convention at Toronto.

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Advertisements must reach us by Monday to secure
insertion in the issue for the following Thursday.

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Coming Exhibitions.August 25-Sept. 4, Detroit, Mich.—
Annual exhibition of plants and flowers in
connection with Detroit International
Fair and Exposition. B. Schroeter, Supt.
Hort. Dept., corner Elmwood avenue and
Chapman street.September 1-4, Boston.—Annual exhibi-
tion of plants and flowers Mass. Hort.
Society. Robert Manning, Sec'y, Horti-
cultural Hall, Tremont St.September 2-3, Galt, Ont.—Fall exhibi-
tion Galt Horticultural Society. Thomas
Vair, Sec'y.September 8-10, Hartford, Conn.—Fall
exhibition Hartford County Hort. So-
ciety. Edwin A. Taylor, Sec'y, P. O. box
1015.September 15-17, Boston.—Annual ex-
hibition of fruits and vegetables, Mass.
Hort. Society. Robert Manning, Sec'y,
Horticultural Hall, Tremont St.November 2-7, Louisville, Ky.—Chrys-
anthemum show Madison Square Garden.November 2-8, New York.—Chrysanthem-
um show Madison Square Garden. J.
W. Morrissey, Sec'y, Madison Square
Garden.November 2-5, Hartford, Conn.—Chrys-
anthemum show Hartford County Hort.
Society. Edwin A. Taylor, Sec'y, P. O.
box 1015.November 3-6, Boston.—Chrysanthem-
um show Mass. Hort. Society. Robert
Manning, Sec'y, Horticultural Hall, Tre-
mont St.November 3-6, Milwaukee, Wis.—
Chrysanthemum show Wisconsin Flor-
ists' and Gardeners' Club. W. H. Ellis,
Sec'y, 133 Mason St., Milwaukee.November 3-7, Detroit, Mich.—Chrys-
anthemum show Detroit Florists. Robert
Flowerday, Sec'y, 460 John R. street.November 4-6, Providence, R. I.—Chrys-
anthemum show Rhode Island Hort.
Society. C. W. Smith, Sec'y, 55 West-
minster St.November 4-6, Wooster, O.—Exhibi-
tion Wooster Floral Club. W. A. Porter,
Sec'y.November 5-7, Erie, Pa.—Chrysanthem-
um show Erie Chrysanthemum Club.
H. Tong, Sec'y.November 5-11, Bay City, Mich.—
Chrysanthemum show Bay County Hort.
Society. T. J. Cooper, Sec'y, 811 North
Water street.November 10-12, Pittsburg—Chrysanthem-
um show Pittsburg and Allegheny
Florists' and Gardeners' Club. G. Osterle,
Sec'y, 508 Smithfield St., Pittsburg.November 10-12, Newport, R. I.—Chrys-
anthemum exhibition Newport Horti-
cultural Society. James Galvin, Sec'y.November 10-12, Toronto, Ont.—
Chrysanthemum show Toronto Garden-
ers' and Florists' Club. A. H. Ewing,
Sec'y, Normal School, Toronto.November 10-12, New Bedford, Mass.—
Chrysanthemum show New Bedford Gar-
deners' and Florists' Club. Geo. C. Bliss,
Sec'y, 34 Arnold St.November 10-12, Washington, D. C.—
Chrysanthemum show Washington Flor-
ists' Club. Eugene Cadmus, Sec'y, 1419
K St. N. W.November 10-12, London, Ont.—Chrys-
anthemum exhibition Forest City Flor-
ists' and Gardeners' Society. Wm. Gam-
mage, Sec'y, P. O. box 155.November 10-12, Oshkosh, Wis.—
Chrysanthemum show Oshkosh Florists'
Club. Mrs. G. M. Steele, Sec'y.November 10-13, Philadelphia.—Chrys-
anthemum show Penna. Hort. Society.
D. D. L. Farson, Sec'y, Horticultural
Hall, Broad St.November 10-13, Chicago.—Fall exhibi-
tion Horticultural Society of Chicago.
James D. Reynolds, Sec'y, Riverside, Ill.November 10-13, Minneapolis, Minn.—
Chrysanthemum show Minneapolis Flor-
ists' Club. E. Nagel, Sec'y, 1116 West
Lake St.November 10-14, Indianapolis.—Chrys-
anthemum show Society of Indiana
Florists. W. G. Bertermann, Sec'y, 37
Mer. Sec'y.November 11-12, Worcester, Mass.—
Chrysanthemum show Worcester County
Hort. Society. Edward W. Lincoln,
Sec'y, 5 Oak St.November 11-12, Galt, Ont.—Chrysanthem-
um show Galt Hort. Society. Thos.
Vair, Sec'y.November 11-12, Montreal.—Chrysanthem-
um show Montreal Gardeners' and
Florists' Club. W. Wilshire, Sec'y, 688
Sherbrooke St.November 11-13, St. Louis.—Chrysanthem-
um show St. Louis Florists' Club. S.
Kehrmann Jr., Sec'y, 21 South Broadway.November 11-13, Springfield, Mass.—
Chrysanthemum show Hampden County
Hort. Society. George D. Pratt, Sec'y,
192 Maple St.November 11-13, Utica, N. Y.—Fall exhibi-
tion Utica Florists' Club. J. C. Spencer,
Sec'y.November 12-14, Buffalo.—Chrysanthem-
um show Buffalo Florists' Club. Dan'l
B. Long, Sec'y, 457 Main St.November —, New Orleans, La.—
Chrysanthemum show New Orleans Horti-
cultural Society. Chas. Wise, Sec'y,
Third and Prytania Sts.November —, Baltimore.—Fall exhibi-
tion and chrysanthemum show Gar-
deners' Club of Baltimore. Henry Bauer,
Sec'y, 1875 N. Gay St.November —, Germantown, Pa.—
Chrysanthemum show Germantown
Hort. Society. Thos. E. Mehan, Sec'y.November —, New Haven, Conn.—
Chrysanthemum show New Haven
Chrysanthemum Club. Miss Frances S.
Ives, Sec'y, 478 Orange street.November —, Syracuse, N. Y.—
Chrysanthemum show Central New York
Hort. Society. H. Youell, Sec'y, 228
Becher street.November —, San Francisco.—
Chrysanthemum show California State
Floral Society. Emory E. Smith, Sec'y,
321 Market St.**CREDITS**Again we hear of cases in which whole-
sale growers and dealers have been caught
by alleged swindlers, who it is said ordered
goods without any intention of ever pay-
ing for them. It is a pretty hard thing to
prove what a man's intentions are, but it
seems safe to assume that the inten-
tions of several parties ordering goods
have been to deliberately swindle con-
fiding wholesalers. The thing that amazesus is that they succeed. Can it be possi-
ble that there are men conducting a ship-
ping business that are so guileless and con-
fiding as to ship every order they receive
without inquiring as to the responsibility
and honesty of the one ordering? It would
seem so, else how can men who have
absolutely nothing to entitle them to
credit secure it so readily?One firm writes us that they have sent
over \$100 worth of goods to a man in a
northwestern city, whom they now allege
never intended to pay. And this firm has
the reputation of being composed of
pretty good business men. According to
the story now told this alleged swindler
has been carrying on this sort of work for
a considerable time past, and if this is so
then certainly a single letter of inquiry
would have revealed the true state of
affairs. Again the party had been re-
ported to the Florists' Protective Associ-
ation, and a query addressed to the secre-
tary would have revealed the fact that
the party had been complained of and
rested under suspicion of being a delib-
erate swindler. Still none of these things
were done. No precautions whatever
were taken and the goods were blindly
shipped on an order from a man about
whom the shippers knew nothing what-
ever.So long as business men take such
chances just so long will they be victim-
ized. And such child-like faith in human-
ity is an open invitation to swindlers to
profit by it.**PACKING PLANTS FOR SHIPMENT.**—One
of our correspondents truly says that the
proper packing of plants for shipment is
fully as important as a reduction of high
express rates, to stimulate the shipping
trade. And certain it is that many ship-
pers are lamentably weak in this direc-
tion. We should be pleased to have some
hints upon the subject to lay before our
readers. Don't waste time and paper
criticising any particular firm's style of
packing, but give us your ideas of the
general rules to be observed in packing
plants.**EXPRESS RATES.**—Regarding our notes
on this subject, one reader writes to
indorse what we said, and to say that if
the Society of American Florists is not in
a position to meet any or all of the
expense that may be incurred, he, for one,
will stand an assessment to make up a
fund with which to prosecute the cam-
paign outlined. We believe the society is
in a position to supply both the men and
the money for the work, for the expense
will certainly not exceed two or three
hundred dollars.**OUR CONVENTION SUPPLEMENT** will be
published with the issue of August 13,
and the map and directions it will contain
will, we believe, be of considerable value to
those attending the meeting at Toronto.
Exhibitors wishing to call special atten-
tion to their exhibits will find the supple-
ment a very effective medium.A FLOWER from a "climbing sport of
the Flosser rose" has been sent us by
Mr. W. A. Harkett, Dubuque, Ia. He
states that the plant is a little over one
year old, pot grown, and seven to eight
feet in height.It is getting toward the last call for
advertisements for the convention sup-
plement. Copy must reach us by August
7 to be sure of insertion.The affairs of E. Kelley, florist, Duluth,
Minn., are reported to be in very bad
condition.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO,

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All Flowers in Season.
Full line of FLORISTS' SUPPLIES.
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KENNICOTT BROS. WHOLESALE FLORISTS,

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A. L. RANDALL, WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES, 116 Dearborn Street, CHICAGO. OPEN NIGHTS AND SUNDAYS. WIRE DESIGNS IN STOCK. Mention American Florist.

E. J. HARMS, Wholesale Dealer in CUT FLOWERS, And Florists' Supplies. 89 Wabash Ave., CHICAGO. Store Open: Nights 9 P. M.; Sundays 2 P. M.

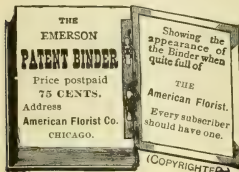
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CUT FLOWERS. The Western Trade Solicited. Write or Telegraph— SMITH FLORAL CO., 77 7th Street S. - Minneapolis, Minn.

REALLY GOOD SEEDS. SPECIAL FOR FLORISTS.

A 1 Giant Fancies, $\frac{1}{4}$ -oz. \$1.50; per oz. \$5.00
Calceolaria, prize strain, trade pkt. 1.00
Cineraria grandiflora, special " 1.00
Stock, double white, very dwarf, " .50
Primula Fimbriata, mixed, " 1.00
" double white, per 100 seeds, 80 cts.
" double red, " " 80 cts.

JOHN THORPE,
Terms Cash. PEARL RIVER, N. Y.



Wholesale Markets.

Cut Flowers.

	BOSTON, July 27.
Roses	2.00 @ 1.00
Carnations	.50 @ 1.00
Tuberose	.25
Mignonette	.25
Sweet peas	.10 @ .25
Lily of the Valley	4.00
Pink pond lilies	12.00
Smilax	12.00
Asparagus	50.00
Adiantums	1.00 @ 1.50

	PHILADELPHIA, July 27.
Roses, Beauties	8.00 @ 15.00
" La France, Albany	3.00 @ 4.00
" Mermets, Brides	.30
" Perles, Niphetos	2.00 @ 3.00
" Marie Guillots	1.00
Valley	2.00
Carnations	1.00
Asters	1.00
Tuberose	5.00
Sweet peas	.25
Adiantums	1.00
Smilax	15.00

	NEW YORK, July 27.
Roses, Am. Beauties	1.00 @ 2.00
" Souvs, Cousins	1.00 @ 2.00
" Waterlilies	1.00 @ 2.00
" Mermets, Brides	2.00 @ 3.00
" La France, Albany	2.00 @ 5.00
Beauties	2.00 @ 15.00
Carnations	.25 @ 1.00
Smilax	6.00 @ 12.00

	CHICAGO, July 28.
Roses, Am. Beauties	3.00 @ 10.00
" La France, Albany	3.00
" Perles, Niphetos	2.00
" Brides Woottons	3.00
Smilax	2.00 @ 3.00
Carnations, long	1.00
Carnations, short	2.00 @ 3.00
Adiantums	15.00 @ 18.00
Smilax	1.00

WM. J. STEWART, Cut Flowers & Florists' Supplies WHOLESALE.

67 Bromfield Street, BOSTON, MASS.
Mention American Florist.

N. F. MCCARTHY & CO. Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place
through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.

WHOLESALE CUT FLOWERS AND FLORISTS' SUPPLIES. THE WISCONSIN FLOWER EXCHANGE, 123 Mason Street, MILWAUKEE, WIS.

CUT SMILAX At Summer prices—15 cents. Quality first class. Shipped on shortest notice. Telephone No. 15. JOS. E. BONSALL, SALEM, OHIO.

H. SCHULTZ & CO., 117 to 123 Market St., - CHICAGO. MANUFACTURERS OF Paper Boxes for Florists.

Special long stem Rose Boxes,
one 10 x 4 inches.
FOUR IN SET " 14 x 5 x 3
" 12 x 5 x 3
" 21 x 2 x 4
Price, \$30 per 100 sets, packed, F. O. B. Chicago. All other styles of boxes for florists.

THE AMERICAN FLORIST AND THE AMERICAN GARDEN in Club one year for \$2.50.

Address AMERICAN FLORIST CO.,
54 La Salle St., CHICAGO.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS, No. 32 W. 30TH ST., NEW YORK. Orders to be shipped will receive prompt attention.

FRANK D. HUNTER, WHOLESALE DEALER IN CUT FLOWERS 51 West 30th St., NEW YORK.

JOHN YOUNG, WHOLESALE FLORIST 53 WEST 30TH STREET, NEW YORK.

A. S. Burns. J. I. Raynor. BURNS & RAYNOR, WHOLESALE FLORISTS, 11 West 28th St., NEW YORK.

C. STRAUSS & CO. GROWERS OF CUT FLOWERS. — WHOLESALE ONLY. — SPECIALTY—Filling Telegraphic Orders. WASHINGTON, D. C.

ELLISON & KUEHN, WHOLESALE FLORISTS, 1122 PINE STREET, ST. LOUIS, MO. A complete line of Wire Designs.

SIEBRECHT & WADLEY, Rose Hill Nurseries, NEW ROCHELLE, N. Y. New and Rare Plants Hardy Plants. ORCHIDS PALMS, FERNS. CUT ORCHIDS AT ALL TIMES. Tuberous Begonias a Specialty.

ORCHIDS. The finest stock in the WORLD. Nearly five acres devoted to their culture. SANDER'S, ST. ALBANS, ENGLAND. Thirty minutes from London.

A FRESH CONSIGNMENT OF MEXICAN ORCHIDS Such as Lelia anceps (winter bloomer), Lelia albida, Cattleya citrina (extra fine), Epidendrum vitellina majus, Odontoglossum aurum (true), Odontoglossum maculatum, Oncidium ornitho- rychum, etc., etc., at very low prices. Write for price list. FREDERICK MAU, P. O. Box 322. South Orange, N. J.

AM. Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDUS, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggitt, chairman membership committee, Wethersfield, Conn.

PROF. F. W. BARTELDUS, of the American Seed Trade Association, is portrayed in the July issue of the *Horticultural Art Journal*, with a short biography. Mr. B. is 39 years of age, and has been established in the seed business since 1873.

The Kansas City Grain and Seed Company has been incorporated at Kansas City, Mo., by J. E. Reynolds, H. B. Hull, and J. A. Bryant.

SEND us your adv. now for the convention supplement which we shall publish with our issue for August 13.

The Long Island cabbage seed crop is reported looking well.

Lining Graves.

A simple method is in vogue here, where most of the openings for interments are in a subsoil of firm clay. The grave is prepared specially for it by being dug four to six inches larger around on each of the perpendicular sides and ends. Evergreen branches only are used for the first or rough lining and for covering over the fresh pile of ground. Hemlock is preferred, as it lays flat and smooth, covers quick, and its deep green is useful for the purpose. No. 16 wire cut in suitable lengths, and bent hair-pin shape, pins into the soil readily and firm enough, and fastens on the flat branches nicely. This is begun at the bottom of the grave, working up that style till reaching the top, where all can be finished off smoothly with the same material, and strings of smilax be added either drooping down or looped around the grave and caught up by clusters of flowers. Or with this firm and green ground work flowers can be conveyed extra in clusters and bunches in a variety of ways and to any extent. We have seen elaborate work done by using adiantum foliage and choice flowers freely in finishing. In this case the fern plants were used, the balls of roots back of the green and out of sight. DAN L. B. LONG.

Buffalo, N. Y., July 13.

Steam Heating.

I am contemplating changing my heating apparatus, in some of my houses, from hot water to steam. Can I use my 4-inch cast-iron pipe for return under the benches? Will some of the subscribers of the AMERICAN FLORIST please answer through the paper, and oblige.

Des Moines, Ia., R. A. ROLLINSON.

OUR ANNUAL convention supplement which will be published with our issue of August 13 will contain a sketch map of the city of Toronto on which will be prominently indicated the Convention Hall, hotels at which rates have been secured, and many other items of immediate interest to the visiting members. Advertisements for the supplement will be received at usual rates.

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plants not admitted under this head.

SITUATION WANTED.—By an experienced florist S and engraver; married, small family; age 35; understands his business thoroughly. Address: N. W. F. Foster, 31 Wash. Maine.

SITUATION WANTED.—By a German; single, with S long experience and good reference. Private place preferred. Address, staling salary. O. K. Prince, 1000 E. 11th, Minn.

SITUATION WANTED.—By young man; English; S understands greenhouse and propagation; three good references; temperate. Address: S. J. Lynn, Mass.

SITUATION WANTED.—By an experienced florist, S to take charge of rose department on a commercial place. Address: Prince, 1000 E. 11th, Minn.

SITUATION WANTED.—By an experienced, first S class florist and nurseryman; German; single; in greenhouse or private place. Fine trade preferred. Address: F. Z. care American Florist.

SITUATION WANTED.—West preferred; grower; S 30 years; just arrived from Europe; well up in all branches of the trade. Has had the management of some large European firms. Finest testimonials. BOKTUS, General Postoffice, New York.

SITUATION WANTED.—As foreman in a place S where roses are raised—H. P. and least of first quality, and florist stock in general. Sober, honest and capable. Address: Broad St., Philadelphia, Pa.

SITUATION WANTED.—Manager or assistant manager in seed, bulb and nursery trade, thoroughly experienced, seeks position. First Class testimonials as to character and ability. Of no objection to travel. Address: SEEDS, care American Florist.

SITUATION WANTED.—By a young man, German, S 25 years of age; had 12 years' experience in all branches of the business in this country; also a good cut flower worker. Can give the best of reference. Address: H. S. 407 Nicollet Ave., Minneapolis, Minn.

SITUATION WANTED.—By gardener and florist; S successful grower of cut flowers, stove and greenhouse orchids, vegetables. Good propagator; age 35; married, no family; 10 years' experience. Private or commercial. Apply: F. Z. care American Florist, Chicago.

WANTED.—Assistant florist, one who understands S working roses under glass. E. H. BISSELL & Co., Richmond, Va.

WANTED.—Young, single man, who understands S flower gardening and general work on private place. J. H. WINDSOR, Des Moines, Iowa.

WANTED.—Practical, experienced man, to assist S in greenhouse; German preferred. State age, wages and recommendations. BEARDS, Bangor, Me.

WANTED.—A thoroughly competent rose grower, S capable of managing a large establishment. Apply: Grand Central Hotel, New York City.

WANTED.—A man who has been successful in the S management of a first class horticultural establishment, including a knowledge of forestry. Apply: HORTICOLE, Grand Central Hotel, New York City.

WANTED.—Florist artist. Position will be vacant S October 1st. Must be skillful, quiet and of pleasing address. A good situation for a good man, none other need apply. Give reference and state salary expected. Address: A. M. & J. B. MURDOCH, Pittsburg, Pa.

WANTED.—PARTNER.—An energetic and thoroughly experienced commercial florist, 25 S years of age, married, no family, desires to enter into partnership with party who owns some greenhouses and land in good locality, can be ready by Sept. 1; best of references. Address, with full particulars, H. C. W. care American Florist, Chicago.

FOR SALE.—House and greenhouses, opposite S Rosedale Cemetery, on a fine lot, 100 ft. deep. N. M. GROSS, 15 Dodd St., Orange, N. J.

FOR SALE.—A very choice collection of orchids; S also some choice chrysanthemums. Apply to C. B. WILLIAMS, Galesburg, Iowa, No. 17, or room 660 Rand-McNally Building, Chicago.

FOR RENT.—Eight greenhouses, 100 feet each, in S good condition; heated by steam. Stock at valuation. Beautiful place and good residence. Address: FLORIST, 128 Euclid Ave., Cleveland, O.

FOR SALE.—Six thousand feet Hitchings' in, pipe, S nine foot lengths, at 5 cents. Also four Hitchings' boilers, two No. 30 and No. 17. All in first class condition. Address: C. A. REESER, Springfield, Ohio.

FOR SALE.—I will sell my greenhouse plant at S Highland Park, Ill., with 2000 sq. ft. of ground at a very low price. There are five houses, containing 1200 feet of glass, well stocked with good growing plants for another year. Warm by Hitchings' boilers and pipe; in good order. Address: W. W. GOVINCOURT, Highland Park, Ill.

TO LET OR LEASE.

For a term of years, one of the Largest and most complete Greenhouse establishments in the West. For particulars, apply to:

HORTICOLE,

Grand Central Hotel, New York City.

FLORIST BUSINESS.

FOR SALE CHEAP.—On account of ill health the owner will sell the whole for small cash deposit, the balance of purchase money on easy terms to suit buyer. It consists of ten greenhouses (17,000 feet), handsome two-story dwelling, stable, etc., etc., situated at Flatbush, near Brooklyn, N. Y. line and within easy walking of horse cars and railroad station. For full particulars address:

ANDREW HARTH, Flatbush, L. I., N. Y.

BULBS. BULBS. BULBS. CHINESE NARCISUS.

Order Now if you wish to secure BEST GOODS at Lowest Rates.

AURATUM, LONGIFLORUM, RUBRUM, KRAMERI.

ALBUM, ETC., CALIFORNIA BULBS.

We guarantee you best seed at the most reasonable rates if ordered now.

Australian Palm and California Flower Seeds.

Send for our Newest Trade Price List.

H. H. BERGER & CO.,

P. O. Box 2432, SAN FRANCISCO, CAL.

Mention American Florist.

FLORISTS. READY AUGUST 1st.

TRUE BERMUDA EASTER LILY.

Our bulbs are the finest and best selected that the "Island" produces. Specially grown on contract for our personal sales, and STRICTLY TRUE.

Circumference of Bulb.	Per 100	Per 1000
SELECTED, 4 TO 5 INCHES (The best size for florists).	\$ 3.50	\$30 00
EXTRA, SELECTED, 5 TO 7 INCHES	5.00	45 00
VERY LARGE, 7 TO 12 INCHES	7.00	65 00
25 Bulbs billed at 100 price. 250 Bulbs billed at 1000 price.		

For terms of credit &c., see our Bulb List free to all. Send a list of your wants for special prices.

FREESIA REFRACTA ALBA, now ready, AMERICAN GROWN, large bulbs, \$1.00 \$ 8.00 Extra Selected, large bulbs, 1.25 10.00

FLORISTS Using LILY OF VALLEY, BERLIN PIPES, ROMAN HYACINTHS, NARCISUS, DUTCH AGNOSTIS, TULIPS, &c., will send lists for our Special Offers. THE QUALITY OF OUR BULBS IS UNEXCELLED.

Z. DE FOREST ELY & CO., WHOLESALE IMPORTERS OF BULBS, 1301 and 1303 Market Street, PHILADELPHIA, PA.

DANDY AND OTHER BULBS.

E. H. KRELAGE & SON, HAARLEM, HOLLAND, have published their new Wholesale Trade List of all sorts of bulbs and tuberous rooted plants, American edition (No. 505), which is sent to the trade only on prepaid application.

FORCING BULBS!

For Summer and Fall Delivery.

Early orders solicited for the following:

Roman Hyacinths, Paper White Narcissus,
Lilium Candidum, Etc., from

LS BREMOND fils, Orléans, France.

Dutch Hyacinths, Tulips, Narcissus Von
sion, Crocus, Spiræas, Etc., from

J. V. VAN ZANTEN & ZONEN,
Established 1837, HILLEGOM, HOLLAND.

LILIAM HARRISII and LONGIFLORUM, July and
August delivery, direct from the growers in
Bermuda, warranted true and strictly prime,
at the following special prices if ordered before
July 1st: Per 1000 For 100
Size, 5 to 7 inches in circum... \$ 40.00 \$ 5.00
Size, 7 to 9 " " " 60.00 7.00
Size, 9 to 11 " " " 105.00 12.50

FRESIA refracta alba, June delivery,
Largest size, selected bulbs only, 6.00 1.00
Second size, flowering bulbs, 6.00 .75

CALLAS, Dry Roots, Aug. delivery, 8.00 9.00

CHINESE NARCISSUS, Oct. delivery, Extra large, selected bulbs, 75.00 9.00

LILY OF THE VALLEY, Nov. delivery

True Berlin or Hamburg pipes, 2
years old, extra strong, in cases
of 2,500, \$9 per 1000. Special price on large lots.

The above quotations are subject to advance
later in the season.

ROSES, CLEMATIS, AZALEAS, RHODODENDRONS,
Etc., imported to order from Holland (Hoskoop),
France or Germany, at lowest prices.

For fuller particulars, see price lists, which will
be mailed free to applicants. Estimates
cheerfully given.

Address J. A. DE VEER,
Agent for Leading Foreign Bulb and Seed
Growers, Nurserymen, Etc.,

154 East 34th Street, New York.

READY NOW.

Fine Stock of

● LILIAM HARRISII,

● CALLA BULBS,

● FRESIA REFR. ALBA.

Send for Samples and
Special Quotations.

W. W. BARNARD & CO.

6 & 8 North Clark St., CHICAGO.

SPECIAL LOW PRICES

— ON —

Lilium Harrisii, Longiflorum, Candidum,
Roman Hyacinths, Paper White
Narcissus, and all other kinds.

DUTCH HYACINTHS,

TULIPS, CROCUS, SPIRÆA, LILY OF THE
VALLEY, AZALEA INDICA, ROSES,
ETC., ETC.

Wholesale price list on application to

HULSEBOSCH BROS.,

P. O. Box 3118. NEW YORK CITY.

The only Dutch Bulb Growers of whose firm there
resides a member in New York, to conduct the busi-
ness. So that we can be reached always.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

Mention the AMERICAN FLORIST
when writing to advertisers on this
page.



READY - THIS - WEEK

LILIAM HARRISII, FREESIAS, ROMAN HYACINTHS. First lot by Express.

Remember Vaughan's Motto, "ALL FLORISTS' STOCK IN SEASON."

OUR COMPETITORS admit that we "get there" in time and quality, but fear we sell TOO
LOW. OUR GROWERS say we BUY LOW, but heavy. OUR CUSTOMERS have not yet com-
plained of the low prices. [LILIAM CANDIDUM, home-grown, ready.]

We want your trade in OUR LINE. Give us the opportunity to prove that
it is to your advantage to be with us.

J. C. VAUGHAN CHICAGO



LILIAM HARRISII.

F. R. Pierson & Co.,

TARRYTOWN, NEW YORK, U. S. A.

HERMAN BUDDENBORG,

HILLEGOM, near Haarlem, HOLLAND,

WHOLESALE GROWER OF ALL KINDS OF

DUTCH BULBS AND ROOTS

Inform all intending purchasers that it will pay them to write or his wholesale price list. Specia
prices will be given to large importers on application. Prime quality at the very lowest prices is
guaranteed by

HERMAN BUDDENBORG,

WHOLESALE DUTCH BULB GROWER,

HILLEGOM, NEAR HAARLEM,

HOLLAND.

Mention American Florist.

HYACINTHS, TULIPS, SPIRÆAS, FREE OF DUTY NOW.

1851. P. VAN WAVEREN, Jz. & CO. 1891.

AMERICA NURSERIES, HILLEGOM, HOLLAND,

Beg to announce to the trade their Price List is ready, and will be mailed free on
application to their Agent in the U. S.

C. H. JOOSTEN, 3 Coenties Slip, NEW YORK.

Mention American Florist.

R. VAN DER SCHOOT & SON,

HILLEGOM, HOLLAND,

Largest Growers of

HYACINTHS, TULIPS, NARCISSUS SPIRÆA, LILIES OF THE VALLEY, ETC.

HEADQUARTERS FOR FORCING BULBS.

Wholesale Importers should write us for prices.

OUR NEW TRADE LIST NOW READY.

Modern Greenhouses.

A visit to the extensive greenhouse establishment of E. G. Hill & Co., Richmond, Ind., shows that this enterprising firm is keeping pace with the times. It will be remembered they sold out their old plant about a year ago, together with their catalogue and retail trade. They at once bought another property of some ten acres a few squares farther out of town, and soon erected a large range of glass. They now have seven large houses 165 feet long and averaging 20 feet wide, also five lean-to houses of same length. These lean-tos make very useful little houses for propagating and pushing on small stuff. A large roomy shed, 20 feet wide and running the whole length of ends of greenhouses, is no doubt good for 50 years.

The shed on the east side is used for pots, soil, sand, manure, etc., while the one on the west end is used for packing, shipping and potting. At the south end of this west shed is fitted up a very pretty and comfortable office.

It is not the size and beautiful location of this place that I wish most particularly to speak of, but the durability of its construction. The houses used for the greenhouses are large, heavy red cedar; all the sash bars and plates are cypress, and have three good coats of white paint. The purlin used for supporting the rafters answers a double purpose. Mr. Hill has utilized the 1-inch pipe for water. This is not only a saving of pipe, time and labor, but has a tendency to keep the water warmer for syringing in winter. The glass used is 1 1/2 x 2 1/2, double strength, made at Kokomo, Ind., by natural gas. Mr. Hill thinks this superior to any French glass he has seen.

It is evident he does not contemplate renewing his benches every few years, as they will surely last as long as the houses. Red cedar is used for posts, light street railroad iron for cross pieces, and on these run lengthwise the same kind of iron, 18 inches apart, on which slate or clay slabs are placed. Mr. Hill has purchased nearly \$500 worth of these clay slabs, but he likes the slate best, as it is more convenient to handle and much cheaper. A 12-inch board is used around the outside, and the bench is completed. With the exception of this one outside board (which, by the way, can be renewed very easily) such a bench should last in good condition for 25 to 30 years. The greenhouses and sheds are all encased with sheet steel. This makes the building practically fire proof from the exterior, as well as making a very neat finish. I think the cost is about the same as good weather boarding.

Two large steam boilers are used, each 4x16 feet. One of these consumes natural gas, which is the principal fuel used, while the other is kept in readiness to burn coal in case there should be any accident to the gas. Mr. H. is a great advocate of overhead heating. He runs a 2-inch feed pipe overhead, which feeds all the smaller ones on the opposite ends and returns under the benches. Judging from the size of smokestack at this place, one would think Mr. H. contemplated turning his place into a manufacturing establishment. He used a whole car load of block stone for the foundation; the balance is built of brick, is 6 1/2 feet high and cost \$500. He assured me he had done building, but we all know he is yet a young man and a hustler and cannot stand still. With his beautiful location and extended trade it would not surprise me to see his already large place double in size in a few years. Kokomo, Ind. W. W. COLES.

JOHN HENDERSON CO.

Flushing, L. I.

ROSES A SPECIALTY. ROSES.
THE CLIMBING PERLE DES JARDINS.

All the New and Popular Roses, Plants, Catalogue of Prices Now Ready.

ROSES. We offer for sale this season, 30,000 FIRST QUALITY FORCING ROSES grown from two-eyed cuttings in 3 and 4-inch pots, ready for immediate planting.

MME. HOSTE, LA FRANCE, SOUV. DE WOITTON, 3-inch pots, \$5.00 per 100; 4 inch pots, \$12.00 per 100,
PERLE DES JARDINS, SUNSET, BRIDE,
NIPHETOS, SAFRANO, MERMET,
BON SILENE, PAPE GONTIER, 3-inch pots, \$7.00; 4-inch pots, \$10.00 per 100.

Send for our Rose Circular. We wish every florist needing Roses to read it.

J. L. DILLON, Bloomsburg, Pa.

ROSES FOR FORCING. ROSES

Bride, Perle, Mermet, Gontier, Duchess of Albany, Hoste, Sunset, La France, Bon Silene, Wootton, Niphotos, American Beauty, in 2, 3 and 4-inch pots.

OUR FAMOUS WORLD'S FAIR SET OF CHRYSANTHEMUMS, AND ALL THE LEADING VARIETIES. DRACENA TERMINALIS AND PALMS, 4 and 5-inch pots. Geranium novelties. Pelargoniums, Fuchsias, Hydrangeas, Vincas, Violets, and other miscellaneous stock. Prices given on application.

GEO. W. MILLER, 1748 N. Halsted St., Chicago.

10,000 ROSE PLANTS.

Strong healthy stock in fine condition for planting, in 3-in. pots, \$8 per 100; in 4-in. \$10 per 100.

Perles, Mermets, Niphotos, Walteville, Gontiers, La France, Jacqs.

A. N. PIERSON, Cromwell, Conn.

ALSO 50,000 CELERY PLANTS, \$3.50 PER 1,000—GOLDEN HEART, WHITE PLUME, BOSTON MARKET.

F. A. RIECHERS & SOHNE, Act-Ges,

Import and Export Nurseries,

HAMBURG, GERMANY.

Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.

Wholesale Catalogue on application.

ROSES. (

200 LA FRANCE..... 3-inch pots.
200 PERLES..... 4-inch pots.
100 PEILLES..... 2-inch pots.
200 HOLY ARDIA..... 2-inch pots.
400 SMILAX..... 2-inch pots.

P. E. SHEETZ NURSERIES,

333 Kensington Avenue, Philadelphia, Pa.
Mention American Florist.

We can now furnish in any quantity desired Debit and Credit Tickets of which we give below samples reduced one-half in size.

DEBIT. <i>Jan'y 10, 1889</i>			
<i>John Smith</i>			
100	<i>Verbena</i>	3	—
50	<i>Geranium</i>	4	—
		7	—

CREDIT. <i>Jan'y 12, 1889</i>			
<i>Richard Roe</i>			
500	<i>4-inch pots</i>	5	—
175	<i>2 1/2-in. "</i>	5	—
		10	—

The debits are printed in black and the credits in red, so they can be readily distinguished. They are put up in blocks of 100; 50 of each, placed back to back; thus out one block will have to be carried. They are meant for use in the office of a florist or grower, and are not to be used in the hands of a customer. Tickets for each transaction in your business will make data from which a book-keeper can readily work. With this simple and easy means of keeping a record of your business can you afford to neglect so important a matter?

Price of Tickets, postpaid, 100, 20c.; 200, 35c.; 500, 50c.; 1000, \$1.40.

AMERICAN FLORIST CO.,

64 La Salle Street, CHICAGO

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS**, **CARNATIONS** and general greenhouse stock. Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and give plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (BOSTON), MASS.

2,500 ROSES

for forcing, at cheap rates. Clean, healthy and vigorous.

2 1/2-INCH, 3 CUTS; 3 1/2-INCH, 5 CUTS.

NIPHOTOS, BRIDE, PEARL, SUNSET, GONTIER, WOOTTON.

RAWSON, The Florist, ELMIRA, N. Y.

THE AMERICAN FLORIST CO.'S

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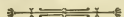
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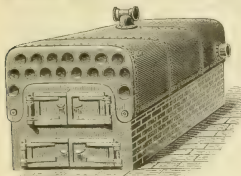
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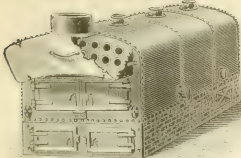
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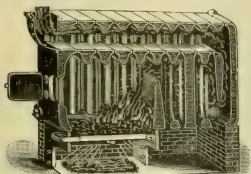
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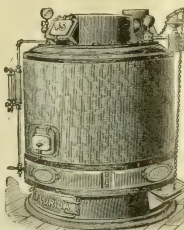
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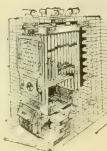
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is stolen. Do it NOW!
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Saddle River, N. J.

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IN THE recent advertisement of Mr. F. Mau, the name of one of the orchids offered should have been *Lycaste costata* instead of *cristata*.

When you write an advertiser tell him that you saw his advertisement in THE AMERICAN FLORIST.

IT IS possible that a new national park will be located in Colorado in the vicinity of Pike's Peak, and to be known as Pike's Peak National Park.

WE HAVE received part of the transactions of the Massachusetts Horticultural Society for 1889 from Mr. Robert Manning, the secretary.

CONVENTION SUPPLEMENT advertisements must reach us by August 7 at the latest. If you want to be represented in the supplement send copy for your advertisement now.

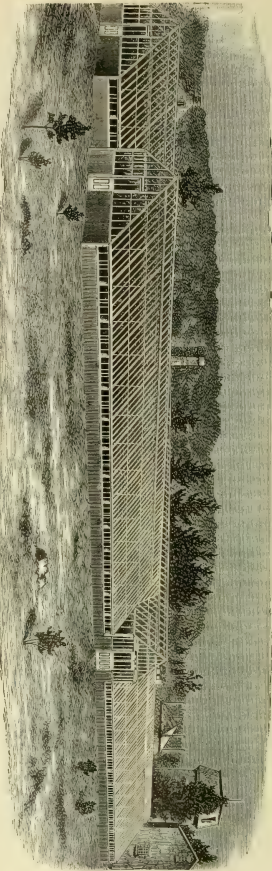
MR. LONG has been working out the idea of a handsome lithographed poster for exhibiting chrysanthemum shows, that might be used by anyone, by adding name, place and date, and will, we understand, exhibit some designs at the meeting of Florists' Clubs at the Toronto convention.

MR. H. YOSHUE, Oakland, Cal., writes saying that in our report of the spring show of the California State Floral Society he was not an exhibitor as stated, and that the Japanese novelties were sent by the Yokohama Gardeners' Association and it was to them the silver medal was awarded.

THE FLORAL ART UNION was the name of an organization of florists and gardeners that existed in New York City in the early days of the trade. Mr. D. W. Fowler, now of Wabash, Ind., tells us that he was a resident of New York City and a member of the "Union" in 1838. He says that the meetings of the organization were held at the corner of Broadway and Twenty-first streets.

COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RATHERS, PARLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON, AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME. — IRON BENCH FRAMES FOR SLATE OR WOOD TOPS. —

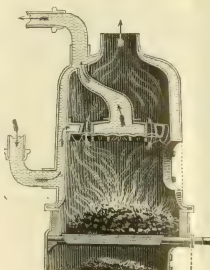
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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VI.

CHICAGO AND NEW YORK, AUGUST 6, 1891.

No. 166.

THE AMERICAN FLORIST

Copyright, 1891, by American Florist Company.
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THE AMERICAN FLORIST COMPANY.

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Address all communications to

AMERICAN FLORIST COMPANY,

54 La Salle Street, CHICAGO.

The Seventh Annual Meeting

— OF THE —

SOCIETY OF AMERICAN FLORISTS

— WILL BE HELD AT —

TORONTO, ONTARIO,

AUGUST 18, 19 AND 20, 1891.

Members may remit the annual dues (\$3.00) to the secretary or treasurer prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for 1891 will be sent by mail to those who remit in advance of the meeting.

Intending members can obtain any information wanted by addressing the Secretary, W. H. Norton, Pres., Boston, Mass.; John Chambers, Sec'y., Toronto, Ont.; M. A. Hunt, Treas., Terre Haute, Ind.; W. J. Stewart, Sec'y., 67 Bromfield Street, Boston, Mass.

FLORISTS' HALL ASSOCIATION.

Insure greenhouses against damage by hail.
JOHN G. ESLER, Secretary, Saddle River, N. J.

FLORISTS' PROTECTIVE ASSOCIATION.

Give information to members regarding the financial standing and business integrity of those in the trade.
H. B. BEATTY, Sec'y., Oil City, Pa.

AMERICAN CHRYSANTHEMUM SOCIETY.

JOHN THORPKE, Pearl River, N. Y., president;
EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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WITH next issue comes our annual convention supplement.

Society of American Florists.

"W. J. STEWART: Dear Sir—I have been for some time wondering whether I could spare the time and expense to attend the next meeting at Toronto; to-day I received a notice from you from which I infer that because I failed to attend the meeting at Boston last season I will be required to pay \$6 for the privilege of wearing one of the little badges this season. If this is the correct inference you have my thanks for assisting me to decide not to attend the next meeting; and you will confer another favor by erasing my name from your books. Respectfully,

As at this time of the year I am in constant receipt of letters similar to the above, I take the liberty of publishing it, omitting the address of the writer.

In reply to it and others of like tenor, I desire to call the attention of present and prospective members to the following extracts from the by-laws of the society, a copy of which has been mailed to every member, and which seem to indicate plainly what a member's pecuniary obligations are:

DUES.

SEC. IV.—The annual fee shall be for each member the sum of \$3 payable on or before the first day of December of each year.

DELINQUENT MEMBERS.

SEC. VII.—All members whose dues are unpaid shall be so notified by the secretary, and when a member shall have paid no dues for a period of eighteen months after receiving such notice, his name shall be dropped from the rolls, and he can be readmitted to membership only by a majority vote of the executive committee.

It is reasonable to assume that a man of ordinary intelligence would know that it is impossible to maintain an organization such as the S. A. F. without some steady revenue collected systematically from its members. The sum of \$3 is not contributed for the privilege of attending conventions solely. Fully one-third of the paying members seldom or never attend the meetings, but they pay their dues regularly and cheerfully, well satisfied, no doubt, that they get the full value of their money in the annual report of the proceedings of the society, and that they are also making good use of their money in contributing this small share towards the support of an organization which has brought so much honor to the cause of floriculture and has done so much to educate and elevate those who are engaged in it.

The whole amount of assessments for a continuous membership from the organization of the society to the present time has been \$17, and it is setting a very low valuation on the beneficial results accomplished during the seven years of the society's existence, to say that there is not a gardener or florist in the land who has not been directly benefited considerably more than \$17 worth, whether or no he is or ever has been a member.

There are men in the society who have never thought to ask, "What good is the

society to me?" but "What can we as a society do for the common welfare?" The constitution and by-laws state the objects of the society to be "to lift up and carry forward all that tends to advance the interests of its members," and these men have unselfishly adopted this as their motto in all their intercourse with its members, ready at all times to give the benefit of their study and experience freely to their fellow florists. These pay their dues regularly. Why should not those who profit by their generosity do likewise?

WM. J. STEWART,
Secretary S. A. F.

Principal Toronto Hotels.

NAME.	CAPACITY.	RATE PER DAY.
Queens Hotel, <i>Headquarters</i> , 78 to 92 Front St.	300	\$3.00 to \$4.00
Rossin House, King and York Sts.	250	3.00 to 4.00
Walker House, Front and York Sts.	250	2.00 to 2.50
Palmer House, King and York Sts.	250	2.00
Arlington Hotel, King and John Sts.	200	3.00 to 4.00
St. James Hotel, 15 York St. (opp. station)	50	1.50
Albion Hotel, Market Square.	300	1.00
Elliott House, Church and Shuter Sts.	150	2.00
Hotel Metropole, King and York Sts.	75	2.00
Avondale Hotel, Simcoe and Wellington.	50	1.50
Richardson House, King and Spadina.	100	1.50
International Hotel, Front and Simcoe.	200	1.50
Black Horse Hotel, Front and George.	125	1.00
Russell House, 215 Yonge St.	50	1.50
Power House, King and Spadina.	90	1.50
Schiller House, 120 Adelaide St. E.	50	1.00
Lakeview Hotel, Parliament and Winchester.	75	1.50
Keachie's Hotel, 30 King St. W.	50	(European)
Empress, Yonge and Gould.	100	1.00 to 1.50

The majority of the above hotels are in the business portion of the city, the center of which is about one and a half miles from the convention hall in the Horticultural Gardens. Street cars pass the doors of all of them, making communication between hotel and hall quite easy.

Members wishing to secure accommodation before hand will do well to communicate early with Mr. J. H. Dunlop, 1 McKenzie avenue, Toronto, Ont.

New York to Toronto.

The New York delegation to the Toronto convention will take the train leaving New York at 5 P. M., August 17, on the West Shore railroad. The route will be to Lewiston on the Niagara river by rail, thence down the Niagara and across the lake by boat to Toronto, arriving there at 10:30 A. M. on Tuesday. Fare from New York and return \$12.70,

on the certificate plan. Each person going pays full fare (\$9.50) and must ask the agent when purchasing the ticket for a certificate, which must be properly stamped and signed. This will, when signed by the secretary again in Toronto, enable the owner to return for one third rate, namely, \$3.20. Arrangements have also been made whereby those wishing to stay over for a few hours at Niagara on their return can do so. Delegates wishing to meet this train en route and desiring sleeping car accommodation, can have the same reserved by writing to the undersigned not later than Wednesday, the 12th of August, stating fully the number of berths required and where they will board the train. If enough delegates signify their intention of going to Niagara to Lewiston, this making it very convenient and saving something in the expense also. If any delegates wish to go a day earlier there will be several members of committees going by the train leaving New York at same time on Sunday afternoon and accommodation can be secured in the same way for that train as for the day following by advising

Summit, N. J. JOHN N. MAY.

Chicago to Toronto.

The rate from Chicago to Toronto and return, via the Niagara Falls Short Line and the Canadian Pacific, will be \$16.60. Train leaves Dearborn station at 3 p. m. August 17, and reaches Toronto at 8:45 a. m. on the 18th. Special sleepers will be provided, and there will be no change of cars. Florists in the west and northwest are invited to travel with the party from this point. Berths may be engaged in advance by addressing G. L. Grant, 34 La Salle street, Chicago.

Names and Addresses of Chairmen of Committees of Toronto Gardeners' and Florists' Club for S. & F. Convention, August, 1891.

Reception Committee—Mr. John Chambers, Superintendent Parks and Gardens, St. Lawrence's Hall, Toronto, Ont.

Trade Exhibit Committee—Mr. Thomas Manton, florist, Eglinton, Ont.

Entertainment Committee—Mr. W. J. Laing, 401 Huron street, Toronto, Ont.

Ladies' Committee—Mrs. Fraser, florist, Spadina Crescent, Toronto, Ont.

Introduction Committee—Mr. F. G. Foster, florist, Hamilton, Ont.

Decoration Committee—Mr. C. Arnold, florist, 521 Queen street, W., Toronto, Ont.

Finance Committee—Mr. J. H. Dunlop, florist, corner of Bloor street and McKenzie avenue, Toronto, Ont.

Printing and Badge Committee—Mr. S. E. Briggs, of the Steele Brothers Co., corner of Front and Jarvis streets, Toronto, Ont.

Bureau of Information—Mr. George Var, care Sir D. S. McPherson's Chestnut Park, Toronto, Ont.

CONVENTION SUPPLEMENT advertisements must reach us by August 10 at the latest. If you want to be represented in the supplement send copy for your advertisement at once.

THE FIFTH annual convention of the Association of American Cemetery Superintendents will be held at Chicago, September 9, 1891. Full information may be had from the secretary, Mr. Frank Higgins, Woodmere Cemetery, Detroit, Mich.



Orchids at W. S. Kimball's.

I recently enjoyed a visit to Rochester, or "Powersville," as it is sometimes called, although some have suggested "Orchidville," on account of the scarcely equalled collection of orchids, the property and hobby of W. S. Kimball and the pride of colonial George Savage, well known to horticulturists as a prize taker in this particular line.

At all times of the year the houses are worthy of a visit and visitors on their way to Toronto would be well paid to stop off.

Cypripediums are the specialty here and it is the "Meeen" of everything new and interesting in this particular family. One of the prettiest, and in flower for the first time, is a variety named after the enthusiastic owner of these many treasures, namely, Cypripedium Kimballianum, and it does honor to the gentleman it is named after. It is of the praestans type, but far more handsome; it is a bolder and more striking flower altogether; the yellow in the dorsal sepal is deeper, and the chocolate colored bars darker and the petals more twisted. Altogether it is a grand acquisition, and Mr. Kimball may well feel proud of it.

Of the "tailed" or caudatum section many varieties were noted, more especially C. caudatum Wallisii, the white variety; C. caudatum nigrescens, the black variety; C. caudatum roseum, and many others, bearing ten to eighteen fully developed flowers. C. grande atratum, a dark variety of C. grande, and undoubtedly one of the finest hybrids ever raised, has C. caudatum (in my opinion one of the most beautiful and striking of the group selenipedium) as one of the parents, which it greatly resembles in its "tails." It keeps in flower a long time, and at the time of writing bore fifteen immense flowers of great substance, showing as in all plants seen here, good culture and careful attention to detail.

Cypripedium Schroderae, another hybrid of C. caudatum, and that little gem, C. Schlimii, is named after Baron Schroder, of orchid fame. It is one of the best representatives of the breeders' skill, and shows what may be done in this particular line. Mr. Savage has quite a number he is coaxing along and from which he expects great things. Cyp. Cecelia and Cyp. Orphan of Rochester, though not yet in commerce, were raised by him at Mr. Kimball's during the last year.

Among the many other specimens in flower were, C. Sedenii candidulum, a white variety of C. Sedenii, with eight spikes; C. Druryi, a very distinct species from the Travancore mountains, with dark bands through the middle of the sepals and petals; C. Lowii, well known; C. Petersii, C. Parishii, unique and well represented, as also were the stately C. Hookeri, and its sub-var. volutianum; the bold C. argus Moensii, the modest C. Schlimii and many other species and varieties, including C. bellatulum and about 250 C. Lawrenceanum, with many very pretty varieties among them, including that rare "Albino," Cyp. Lawrenceanum Hyemum, flowered here for the first time in America just twelve months ago. The rare C. Sanderianum, somewhat difficult to flower, was giving great promise.

Of miscellaneous orchids many unique things were in flower, the most conspicuous of which are included in the following: Cattleya (Mossiae) Wagneri, the true white form, with massive flowers; Cattleya Skinneri, also, very graceful, with 25 fully expanded flowers; Cattleya dolosa, of the nobilior section, with very dark mauve flat petals, very showy, and several hundred Lælia purpurata flowers with the white variety went to make up a well filled house.

Of dendrobiums I saw here the finest piece of D. Freemanii it has been my lot to see. Fancy one bulb covered with 40 odd flowers, of immense size for the variety and fully developed. Say, George, you did well! D. Picardii latifolia, D. Wardianum, D. nobile Backhouseanum and D. suavisimum all carried a wealth of flower, as did also D. Jamesianum, a variety which, though somewhat more difficult to flower than the rest, succeeds and flowers well by giving it a cool treatment, as Mr. Savage does.

The old Vanda Roxburghii and Vanda Denissoniana, with pure white petals and deep orange throat, contrasted prettily.

A wealth of that useful odontogloss, O. citrosomum var. album with its hanging racemes of white and mauve tinted flowers, gave additional proof of its value to the florist and tried to vie with the arching spikes of O. Alexandrae and O. Pesatorei, which were simply reveling in their treatment.

Many masdevallias of the Chimæra section, including M. Wallisii and others, M. Harryana and many varieties, proved how easy it is to cultivate these little subjects, though a few years ago the idea of growing them here was scorned.

Miltonia stellatum, when cheap and plentiful, will prove useful for cutting, having light yellow flowers nearly as large as O. Vexillarium.

Only a partial list of the many good things to be seen here is given, but, as the hard hand said, "more anon."

June, '91. THE DRUMMER BOY.

Lycaste Aromatica.

The genus lycaste contains some of our best garden orchids, and L. aromatica is one of its most interesting species. The orange yellow flowers are between two and three inches across, and borne singly on slender, but erect scapes, which proceed from the base of the latest formed pseudo-bulbs to a height of four or five inches. The plant blooms very profusely during May and June, and the flowers possess a strong, agreeable perfume, fragrant to its very principal charm, though the color is by no means unattractive, a single plant in a 5-inch pot being sufficient to fill a greenhouse 50 feet long by 24 feet wide, with the delightful perfume.

A few words as to the culture of L. aromatica and lycastes in general may not be out of place at this time. The temperature in which they are grown should never be allowed to fall below 50°. They are not plants that dislike dense shade; but, being epiphytes, growing naturally in the partial shade of the trees whose trunks and branches they clothe, strong sunshine is also injurious. Ample drainage is strictly essential, and the best potting material is that composed of coarsely chopped peat fibre, sphagnum treated likewise, and broken crocks in the proportion of two parts of the former to one each of the latter. The pseudo-bulbs should always be elevated a little beyond the rim of the pot or pan, and it is advantageous to keep them clear of the potting material, which, for



BASKET OF ORCHIDS.

appearance sake and the better to retain moisture, may be surfaced with clean, picked sphagnum. As the new growth generally makes its appearance contemporaneously with the development of the flowers, the operations of potting should be performed some weeks in advance of those events, and to preserve the plants in luxuriant health use only such receptacles as are thoroughly clean and readily admit of the escape of water, copious supplies of which, through syringe and watering pot, will be required during the growing season, but less in winter, though the plants should never be allowed to become quite dry at the roots.

Cambridge, Mass. M. BARKER.

Some Cannas.

Among the "Crozy" or dwarf French cannas are there any having yellow flowers? My reasons for asking are, though I have quite a number of the new sorts, not one is a clear yellow. M. Crozy may have discarded those having yellow flowers in favor of the spotted varieties. If so, I think he has made a mistake. I was first made aware of this fact late last summer, when a lady drove in to look over my collection, with the view of making selections for the next spring's planting—this spring. The variety selected was the old *Premice de Nice*!—very nearly twenty years old. I have grown it more or less for the past fifteen

years. So far as I have seen it is the best canna with yellow flowers in cultivation. There is nothing among the Crozys that can approach it for effectiveness, especially when associated with another old veteran, namely, *President Faivre*. This has dark leaves and red flowers, and it stands pre-eminent among cannas having dark foliage.

Among Crozy's earlier introductions was one which has always impressed me as being very valuable. Its name is *Cardinalis*, and appropriately, too; that is, if *Lobelia cardinalis* is well named, for it suggests the highly colored flowers of our native plant at a glance.

I secured a few plants of *C. flaccida* last year. They were a trifle too flaccid, for many of the roots died outright, and the balance have not yet sufficiently braced up to produce a flower.

I cannot conclude without saying that the general public really seems to favor the self colors. Whether it is fashion or not I cannot say, but it is a fact, and the sooner M. Crozy or our own raisers turn their attention to producing them the better.

By the way, the consensus of opinion seems to favor *Mme. Crozy* as being better than *Star of '91*.

Premice de Nice has a few freckles on its flowers, but not enough to detract from their effectiveness. These few darker spots have often suggested to me that perhaps M. Crozy had used this variety in

his earlier operations in producing his now famous varieties with conspicuously spotted flowers.

EDWIN LONSDALE.

Basket of Orchids.

The basket seen in the illustration was one that we had made after the style of an ordinary oyster basket, but a little smaller. The rough, natural and perfectly clean material of which the basket was made contrasted very pleasantly with the delicate orchids, which were the principal flowers used.

H. H. BATTLES.

Pronunciation of Names.

M., in a late number of the *AMERICAN FLORIST*, made an inquiry (page 941) for the correct pronunciation of *clenatis*, *gladiolus*, *pelargonium* and *Niphetos*. Webster directs how to pronounce these as indicated by the following division into syllables: *Clem-a-tis*, *gla-di-o-lus*, *pel-ar-go-ni-um*. In *gladiolus* the accent is on the second syllable, making the vowel, *i*, long and the next syllable short. The name of the rose, *Niphetos*, is a pure Greek word, defined "snow-shower" in that language. The vowels, *i*, *e*, *o* are each short; hence the name should be divided into three syllables, *Niph-e-tos*. As the rose was introduced in 1844, according to Ellwanger, when a good

white tea was a novelty, I suppose the color and habit suggested the classic name.
D. S. HEEFERN.
Washington Heights, Ill.

Long Island Notes.

BY WM. FALCONER.

LYSIMACHIA CLETHROIDES, which friend Temple of Iowa praises so much, is very prettily in bloom, and a profusion of white flowers are useful in many ways. But what a weed it is to run in the ground! It is a hardy perennial.

ALPINE AURICULAS in frames have borne up better through the summer than common polyanthus, and so too have the capitata primroses.

PLUMBAGO CAPENSIS.—Now that it has got to growing and blooming in earnest, what a fine show it makes, and the white-flowering form is just as free growing and blooming as the blue one. And they keep in fine form till cut down by frost.

MY DOUBLE WHITE HOLLYHOCKS sown February 21 last are now in full bloom and only four feet high; this earliness and stuntedness are caused by the unusually severe drought. Double crimson-flowered, sown same time and treated the same have not yet thrown up flower spikes.

HELIOTROPE out of doors is fine. The spring struck plants are past their best; those struck in May are splendid. *Heliotrope* is a tender plant, but we always get our finest trusses of flowers in late summer and early fall with the long cool nights. It loves rich ground.

MUSHROOM BEDS.—Have finished cleaning and whitewashing our cellars and begun preparing manure for our first crop, to come in October. And we will keep up regular succession from then till April.

HARDY PASSION FLOWERS.—Last fall I left a lot of *P. corallæa*, *Constance Elliott* and *Arc-en-Ciel* outside, cut them down and mulched them well over winter; up to the 10th of July there was not the least sign of life in the plants, but now they are all coming up. At this late date surely we cannot call them hardy here; who could bother or afford to wait till the middle of July for their vines to come up; by that time our arborers should be clad with vines and blooming in order.

BOUVARDIAS are grown for their flowers in late fall and early winter, but what capital summer blooming plants they are! From the end of July on they are full of flowers and the more we cut them the more they branch and bloom. When grown for winter blooming we cut them back in summer to render them bushy and keep the flower stems pinched back till lifting time.

SOLANUM JASMINOIDES var. *GRANDIFLORUM*.—When such a conservative old florist as James Taplin is struck with the beauty and utility of a plant there must be something good in it, and so it was here the other day. The large size and pure whiteness of the blossoms of this variety as compared with the bluish tinged flowers of the type appealed to him at a glance that this was an excellent variety to grow out of doors for cut flowers in summer as well as for garden decoration. It is not hardy here, but I winter the old roots in a frost-proof cold frame, also strike a few cuttings in fall for young stock in spring, wintering them in the greenhouse.

ARISTOLOCHIA ELEGANS planted out of doors in summer grows vigorously and makes a handsome vine.

THE CHRYSANTHEMUM BEE-FLY has

been with us all summer. This doesn't forebode any good for next November.

We have a very large (35 by 40 feet) side-laid against a building and which is filled with a wide belt of dwarf cannas at back, then alternate rows of tritomas—different kinds and a row of each kind—with alternate rows of gladioluses between them, and montbretias in front. The tritomas bloom from July till November, and the gladioluses being of different plantings—the earliest planted next the cannas—also keep up a succession of flowers from the middle of July till end of September. The effect is gay and without any stiffness and all of these plants can be grown by anyone having an ordinary house cellar to winter the roots in as well as by me.

VINES ON TREES.—I planted by and growing up over the stems of old cedars in our woods and grounds we have climbing hydrangeas and schizophragma, also Veitch's and Koye's ampelopsis, English ivy and other vines, and this very dry summer has been severe on them. But the ampelopsis or English ivy or wistaria do not show any evil effects of it apart from curtailed growth; on the other hand the hydrangea and schizophragma have suffered severely, wilted and lost a good many leaves and have had to be watered several times. This shows that they are no dry weather or dry ground plants.

Nephrودیums.

This large group contains many species that are of value from a commercial point of view, and several of them have already proved their usefulness, as to be included in the regular trade lists of florists' ferns.

In point of general utility I am inclined to rank the nephrودیums third, placing adiantums first and pteris in variety second, though possibly the correctness of this classing may be disputed in some localities, it being well known that the demands of all markets are not alike.

But be this as it may, the fact remains that the nephrودیums are a valuable family, being easily reproduced, mostly of rapid growth, and in general not requiring high temperature or special cultivation in order to secure a satisfactory result.

It is scarcely necessary to state that these ferns are propagated from spores, this fact being patent in most places where any plants of this class are grown, at least so far as the well known *N. molle* is concerned, this species appearing in the form of self-sown seedlings in the most unexpected places.

Among the best species of this genus is *N. aristatum* var., a bold-looking fern with dark green leaves, that are marked down the center of the pinnales with a band of yellowish green. The fronds of this species are of medium size and of good texture, and the plant is sufficiently hardy that it frequently survives after all the others in a table fernery have succumbed to the furnace heated air. *N. aristatum* var. also stands well when cut, but possibly would not pay for this purpose on account of the limited number of fronds produced by each plant.

Another good one is *N. varium*, also known as *Lastrea opaca*, which is of similar outline to the preceding, though having but one color in the mature fronds, these being very dark green, and having the stems much covered with brown, chaffy scales. The young fronds of this species are also very noticeable in color, being a peculiar shade of light brown and sometimes tinted with pink. In habit *N.*

varium is compact, and makes a useful plant in a 3-inch pot, though it will not grow much during the winter, and if forcing by extra heat is attempted the result is likely to be an attack of thrips.

N. Richardii multifidum is also a handsome variety, and is of more recent introduction than the preceding. It has long, bipinnate fronds, finely divided and much crested, the color of which is light green. This form also comes true from spores, and consequently is easily multiplied, the young plants when in 3-inch pots being of a useful size for table ferneries.

Still another very distinct and easily grown species is *N. Sieboldii*, probably better known as *Lastrea Sieboldii*, a strong growing fern of bold aspect and nearly hardy. The fronds of this species are pinnate, and composed of from five to nine broad pinnales with slightly serrated edges, the stipes and crown of the plant being covered with brown, chaffy scales. *N. Sieboldii* should be grown in a moderately cool house in order to keep in good condition, for when grown too warm it is liable to become infested with thrips.

N. molle is too well known to need description here, though a useful species for certain purposes; for instance, it is an excellent fern to plant among rock-work when filling a conservatory, and will produce a good result with very little care.

The crested forms of the last named species are very pretty, and may be used with good effect at times, though too brittle to become generally useful.

The most peculiar of these forms is *N. molle corymbiferum*, the fronds of which are upright, quite stiff and terminated by a large crest.

Another of these forms of *N. molle* is *N. m. grandiceps*, in which the fronds retain the outline of the type, while the tip of each pinna is nicely crested in much the same way as those of *N. Richardii* multifidum.

N. molle Langwellii is a comparatively recent form, having been distributed about six years ago, but is, however, of little value commercially.

N. glabella is a finely divided species of dwarf habit and deserves more recognition, the fronds being nearly triangular in outline and from eight to twelve inches in height. This is also a cool-house species and will flourish under the same treatment as *N. Sieboldii*, that is, with a temperature of 50°.

The short list here presented contains some of the most useful species included in this comprehensive genus, but does not by any means exhaust the list. In the present classification what formerly comprised several genera has been combined in the single genus nephrودیum, thus giving it about 300 species.

W. H. TAPLIN.

Holmesburg, Pa.

New Gladioli.

It is known to comparatively few that a new class of gladioli will soon be offered to the public, showing as decided advance over all older kinds of this species as do Crozy's newer cannas surpass the former varieties. Mr. Wm. Falconer in a former number of the *FLORIST*, page 40, September 1, 1889, speaks of these new hybrids. Our illustration here reproduced from *L'illustration Horticole* shows in about two-thirds natural size five new ones from M. Lemoine. The center flower on the right is the Pres. Carnot, and is a type of the new class referred to. Imagine these plants with uniformly strong flower stalks 4 to 5 feet high thickly set with flowers 5 to 6 inches across and with as



NEW GLADIOLI. (TWO-THIRDS NATURAL SIZE).

full a range of color as in the old classes. Such will be shown in the near future. This new race is the result of a cross of the *G. Saundersii* with the old *Gandavensis* type. It is a satisfaction to know that the largest stock of these have been grown in and will be offered to the horticultural world from America. Over eight hundred different seedlings have already been given numbers or named. The value of this class can hardly be overestimated.

Water and Watering.

"A constant and plentiful supply of water is the first essential in gardens," says the *Journal of Horticulture*; "Where gardening is conducted as a means of profit and not a penny is knowingly spent uselessly, large sums are invested in providing a constant and abundant supply of water, in full confidence that this will give a good return on the outlay. With-

out adequate provision in this respect the important work of cultivation could not be profitably conducted, no matter how good the soil and climate or how favorable the position for the disposal of the produce. Much more water is used, as a rule, in commercial establishments, where plants and crops are grown for sale than in private gardens; but though it may appear to be used lavishly in the former it is applied judiciously, or the results

could not be satisfactory. In the application of water to fruit borders many things have to be considered for the avoidance of mistakes—the nature of the soil, drainage, temperature, atmospheric conditions, as well as the state of whatever may be under cultivation—whether recently planted or long established. Tomatoes may be ruined and have been ruined, by saturating the soil too early in the season. One watering given in error may spoil the plants whether they are in pots or planted out, and it is the same with other plants and crops. Overzeal at the commencement of operations in giving water thoughtlessly when there are few roots to imbibe it, is too common. We may respect the motive, but must deplore the want of judgment thus too often apparent; and, conversely, it is sometimes not less apparent later in the season in the opposite direction, when the supplies are inadequate for the needs of plants and crops and the demands of an arid atmosphere. Mr. H. Dunkin communicates sensible remarks on watering, mainly applied to plants in pots, but the principle on which he bases his action governs the whole routine. He writes as follows:—

"When the long looked for sunshine and warm summer days arrived the beneficial influence was quickly and keenly felt on all kinds of vegetation, which spring into active growth with wonderful rapidity. In the case of plants growing in pots, to sustain the large amount of growth recently made and keep the plants still growing on in a satisfactory condition, growers will have to be on the alert and bear well in mind the great changes of atmospheric conditions under which their operations are now conducted, otherwise the great caution which has been necessary in watering plants during the long, dull, wet, spring months will have the effect of allowing the plants to become too dry at the roots before water is given. It is after such great changes from dull cold to tropical weather that the greatest mistakes are made by the inexperienced, and it must be confessed that a thorough knowledge of the quantity of water different classes of plants may well benefit receive in hot weather can only be arrived at by a combination of close observation and well applied reasoning, and among the many operations connected with plant culture I firmly believe proper watering plays the most important part. Even when potted in unsuitable soil judicious watering may do much to secure good results; but pot a plant in soil exactly suited to its requirements and water it with other favorable conditions, yet with all these advantages neglect or carelessness in watering will produce only meagre results. The general tendency seems to be to give too much water in winter and too little in summer. This mistake appears to be brought about by following a regular course of allowing the soil to get into a certain state of dryness before watering, without taking into consideration the immense difference in the amount of evaporation which takes place in the summer time when the days are long, and the amount of light and sunshine produce a light and dry atmosphere which plants cannot withstand without showing signs of distress if the soil in the pots is allowed to become too dry. Another point which must not be overlooked is to find out the conditions of the plants as regards drainage and the amount of roots they have. With good drainage and plenty of root action going on it is really surprising what large quantities of water such things as tomatoes, spiraeas, fuchsias,

chrysanthemums, strong growing ferns, and many other plants require to insure their fullest development. When once plants have been reared to a high state of cultivation the greater is the check which they receive if allowed to become too dry, because the large numbers of active rootlets are so dependent upon a plentiful supply of water that they quickly perish if it is withheld at the critical time. To allow plants which are in a robust condition and well supplied with roots to become as dry before giving water as others more recently potted, or through other causes with less root action, would be to court failure, which would inevitably follow. The one might be greatly benefited by thorough waterings two or three times a day, while the other would not require it oftener than once a day, or in some cases two or three times a week. The practice of rapping pots with the knuckles or a small mallet made for the purpose is doubtless a good one with many classes of plants, such as heaths, carnations, azaleas, and many others, but even then it does not do to depend entirely upon the rapping test, as pots vary so much in the state of their hardness or porosity. In the case of hardwooded plants, however, it is perhaps the best test which can be generally applied, but with the majority of softwooded plants in the summer time those who attend to them regularly can usually tell at a glance by the surface of the soil and the appearance of the foliage whether or not water is required. In the case of strong plants with the soil crammed with roots two or three waterings a day in hot weather is often needed, and at each application enough to thoroughly moisten every particle of the soil should be given; but I have seen instances in which these frequent waterings were carried too far, with the result that the plants suddenly collapsed. Due care, therefore, must be exercised to find out the true condition of the soil. Because a plant required water twice or three yesterday and the day previous that is no reason why it should require as many applications each day. A slight change in the aridity of the atmosphere, the amount of moisture, or the growth determine the necessity for a greater or less supply of water. With plants that require water more than once a day, after the first daily application is given the safe course to follow, if any doubt is entertained about giving the next supply, is to allow the soil to become slightly drier than at the previous watering, and by watching closely the effect this little variation has on the appearance of the plant will be a useful lesson in watering, and a continual succession of these useful lessons must be constantly going on to enable anyone to become an expert in the work, and so changing and varied are the conditions under which watering has to be conducted that even experts, to be generally successful, must be students as well.

Mr. Battles and the Blues.

That's the way of it, always. A man never knows when he's done with anything. I thought I had settled Mr. Battles, but here he pops out again with a gang of Philadelphia clerks from the art stores and the dry goods stores and perhaps the millinery establishments, armed with Emperor William pansies, and jumps one with the war cry, "They are not blue." Well, Mr. Battles and ladies fair, what color are they? It is easier to say what a color is *not* than to say what it is, isn't it?

Now if you blue-eyed girls from the stores will just step one side with Mr. Battles, and let him match your eyes with a bit of ribbon, and take you around to a few art stores, he will discover to you that your eyes are not blue at all nor your hair golden, nor your teeth white nor your lips ruby red nor your complexion like a pearl. And then where will you be? Dear girls, what color are your eyes? Are they "light lavender" or "deep purple" or what intermediate shade? They are "blue," no colors. Mr. Battles has declared that all colors that are not strictly and scientifically blue shall not be called blue. There is no more blue sky; it is gray. The violets are not blue; they are — (what, Mr. Battles?) The bluebells, alas! they are not blue; what are they, Mr. Battles?

There are blues and blues, Mr. Battles, or aren't there? Is there only one blue, and if so, what is it? Where can we see it? Can it indeed be true that there is but one blue and Mr. Battles is its prophet?

To my mind there are blues innumerable, and if a color is nearer to blue than to violet I call it blue, and violet blue or lavender blue, if you will, but still blue. All other colors come in shades, why not blue also? Among the flowers the fact is that the blues lean in almost all cases to the lilacs and violets, the lilacs containing a larger portion of red than the violets. The gentian is the only true blue that I can call to mind at the present. The ageratum is a lilac shade of blue, but place the ageratum flower beside the lilac flower and the ageratum will *appear* blue. Then place your Emperor William pansy flower beside the lilac, and that also will appear blue. The Emperor William pansy beside and among other pansies—all others—in a mass or side by side, will appear blue. It has been noticed again and again by callers with the exclamation: "Look at those blue pansies!"

All color is relative. Not one has a stable, unchanging hue. Each is affected by the color of surrounding objects. A pansy lying on the table will be of one hue of color depending upon the hue of the table, the walls, the sky outside from which comes the light, the composition and thickness of the glass, and a multitude of other things. Out of doors under a green leaf it will be another hue. Scientifically and accurately speaking, "color" as commonly used in speaking and writing does not exist at all in the object to which it is commonly attributed. The flower is not blue, but absorbs all the component rays of light but the blue rays, reflecting those. The lenses in the eyes of those who view the flower may cut out more or less of the blue rays, so that to no two persons will the same flower appear to be of the same color. The study of color as experienced by people who are "color blind," as it is termed, will serve to sorely perplex Mr. Battles. Why some see green when red is reflected and why the green rays are all absorbed by the red object is a problem which may well engage his scientific turn of mind. And, so far as science is concerned, I would advise Mr. Battles to consort rather with artists who are students of color, landscape painters rather than figure painters, than with the clerks of art stores with their "Italian pinks" and "yellow carnations," or the clerks of the dry goods stores with the "elephant's breath" and "crushed strawberry" colors.

Personally I feel it to be a great mistake to attempt to force a scientific scheme of color into floriculture. Flowers of themselves belong in the sphere of poetry, not of science, in so far as they touch and



VASE FILLED WITH ROSES. (ROSA MULTIFLORA).

influence human existence outside of "the trade." It is our privilege as florists to enhance the poetic feeling attaching to flowers, and to spread it rather than to restrict it. We ought to have a color scheme of our own. What could be more delicate and refined than Jacqueminot red, Forget-me-not blue, Tropaeolum yellow, Grace Wilder pink? Let Mr. Battles set himself to this, and let the violets and the sky be blue again.

RICHARD FERRIS.

Vase Filled with Roses (Rosa Multiflora.)

In this illustration, as is generally the case, one of the greatest charms of the arrangement is lost by the absence of color. The vase used was a very delicate blue; the white petals of these miniature roses and the profusion of the yellow stamens made a charming bit of coloring. Flowers could be used in this way on a dining table, mantel-piece or small table in any room.

It will interest many to note the important part that one spray of roses and leaves on the left of the design plays in the arrangement; they connect the flowers lying loose on the table with the ones in the vase, thus making a harmonious whole; without them the entire character would be changed. There would be simply a line of flowers on the table. When flowers are used in this way it is of the greatest importance that they should be arranged at the latest possible moment, so that they will not fade before the entertainment is over. H. H. BATTLES.

The Color Question.

In response to some queries regarding colors, Mr. F. Schuyler Mathews writes: "The buttercup has not a true and pure yellow. It has quite a bit of orange in its composition. Perhaps the common mustard flower possesses as pure a yellow

as it is possible to describe by naming a flower which has an unvarying quality and tone to its color. Dandelions are orangish. The coreopsis is also unreliable and variable in color. What we boys used to call "Butter and Eggs" or "Toad-flax" (*Linaria vulgaris*) possesses a really pure yellow—I mean in the "butter" half. Golden rod is sometimes yellow, but generally orangish. The yellow of the forsythia I consider a pure yellow, but I have seen a bush whose flowers looked a trifle greenish.

"I know of no purely blue wild flower. The 'pure blue,' so-called, of the Fringed Gentian is far off from blue. The forget-me-not is nearest to pure blue.

"The *Cydonia japonica* is near the true pure red, but is a trifle orangish. The wild wintergreen berry I think is an absolutely pure red."

Mr. Mathews has promised to go farther into this matter in an article for the *Florist* and will also accurately describe certain well known flowers, which will, we believe, do much to correct erroneous ideas regarding color, and establish uniformity in color descriptions.

In conversation upon this matter of color several have mentioned the flowers of *Salvia splendens* as exhibiting the primary red. But others claim that this is nearer scarlet. Many have suggested *Delphinium formosum* as the nearest to pure blue that they could think of, though nearly all admitted that the shade was rather darker than their conception of the primary blue. Several others have thought the forget-me-not filled the bill. Nearly all agreed upon the buttercup as possessing the primary yellow, but Mr. Mathews tells us that there is a shade of orange in it.

Truly the color box of nature contains an infinite variety of colors and combinations of colors, and it will take long and patient study to become acquainted with even a fair proportion of

them. But that we can and should become far better acquainted with them than the majority of us now are, all will agree.

Chicago.

No new developments regarding the Horticultural Department of the World's Fair up to Tuesday noon.

All who expect to attend the Toronto convention of the Society of American Florists are requested to report to the secretary of the Florist Club prior to the meeting next Thursday.

There are quite a number of matters to come before the meeting of the Florist Club next Thursday evening. Delegates to the meeting of Florists' Clubs at Toronto will be selected, action will be taken upon certain matters connected with the World's Fair, and other important questions will come up for discussion. And last but not least will be the selection of a bowling team from among those who will attend the Toronto convention, to represent the club in the bowling contest at Toronto.

Among recent visitors to the city were J. G. Heim, Terre Haute, Ind.; J. Young, St. Louis; J. C. Renssion, Sioux City, Ia.; L. Swartling and John Gird, Indianapolis.

The market last week showed more activity than at any time since the beginning of the dull season. The local demand for flowers, especially white, was quite brisk, while the commission men report a fairly good country demand. The quality of stock is fairly good, taking the rose crop all around, and the retailers admit that at this season of the year they never handled better stock. This may be partly due to the extraordinary cool season, but the grower must also be given credit for giving more time and attention to the growing of good stock in the summer. With Beautics at \$8 to \$10 and other roses on the average of \$3 a hundred, the

growers have no reason to find fault. There is but little demand for garden stuff. Gladiolus, choice varieties, go begging at 50 cents a dozen; dahlias and asters are a drug in the market, except white, that can be used for funeral work.

Boston.

Mr. Seth Cole, a well known florist of Gloucester, died on August 1, his 56th birthday.

Mr. Robt. Farquhar's little boy, Walter, died on July 27. Much sympathy is expressed for Mr. Farquhar, who is away from home, he having sailed for Scotland several weeks ago.

President Norton, of the S. A. F. has been at home for several days nursing a sprained leg, which he got while innocently romping with the little Nortons. He hopes to be all right by convention time.

The retail florists close their stores at six p. m. during July and August. Funerals are their only source of revenue at present. Otherwise trade is remarkably quiet, even for midsummer. Pink pond lilies are about the only flower for which there seems to be a steady demand.

An acceptable innovation has been introduced by Supt. Dodge in the planting of the beds in the Public Garden. Many of those which have in former seasons been planted with geraniums, calceolus and similar "bedding plants" are this year filled with palms in variety, variegated hollies, rubbers, yews, etc. The rhododendron and other hardy shrubby beds look uncommonly well this season.

The Saturday show, August 1, at Horticultural Hall was attended by a tremendous throng of people. Wonder how it happens that these weekly exhibitions have become so popular in the past year. "Everybody off to Europe," "people not interested," etc!.

Lilium Wallichianum superbum was exhibited by H. H. Hunnewell and received a certificate of merit.

A seedling gladiolus of the Lemoine section, shown by W. E. Endicott, received honorable mention. A splendid group of acrimenes was shown by Wm. J. Martin, gardener to N. T. Kidder.

The Faxon prize of \$25 for the best display of sweet peas was won by Wm. Patterson. The display of sweet peas was very large, filling a large table the whole length of the hall and the entire front of the stage. H. A. Jones, J. F. C. Hyde, Chas. W. Halstrom, Rose Buxton and Jos. H. White were among the principal exhibitors. The collections of aged herbaceous flowers from N. T. Kidder, J. W. Manning and Temple & Beard were of their usual excellence and attracted much admiration.

The Hub is receiving its usual quota of summer visitors. Among the past week's callers have been Francis Pell, London, Eng.; Jas. Pape, Toronto; Harry Sunderbruch, Cincinnati; E. H. Moses, Bar Harbor, Paul Berkowitz, Philadelphia; and Chas. Knight, Lenox, W. J. S.

Philadelphia.

A very rare blossom has been discovered by Mr. D. R. L. Farson. He was not able to place it, and searched Brother Penman's book in vain. Thinking perhaps it might be a summer flowering annual, he took it to Mr. George Watson, who declared he had never seen anything like it before. It was finally decided to send it to Boston, where it now is awaiting a name. Messrs. Stewart, Welch, and Norton are, we believe, investigating the matter, and may report in time for the convention.

It is reported that one of our large growers of cut flowers and hot-house vegetables, mushrooms, etc., will this fall inaugurate a new way to dispose of his products, his intention being to rent a stall in one of the principal markets and sell at retail for the best prices obtainable. This is a "Capital" idea, as Washington florists do quite a business in this way.

Business the past week has been very quiet. X.

Toronto.

Another enthusiastic meeting (special) of the Gardeners' and Florists' Club was held last night to receive and discuss reports of committees, etc. The entertainment committee's report came in for the lion's share of the discussion and took up the greater part of the evening. Finally the arrangements, with the exception of some minor details, were definitely settled, and perhaps I may say that D. V. and W. P. I don't think that members of the S. A. F. will have anything to complain of when they leave the city. However, perhaps it would be better not to toot one's horn until the 22d of August.

The club also decided to offer a trophy for the winning club at the bowling contest on Thursday afternoon of convention week. The various clubs which intend to compete will kindly make their arrangements accordingly.

My report of the flower show here last week was through press of business necessarily brief. The show certainly deserved a more detailed report. However, as on Thursday afternoon in convention week (with the exception of the bowling contest) the visitors will be allowed to go where they please, I have no doubt that many will avail themselves of the opportunity of seeing what is to be seen in the various conservatories and greenhouses, both trade, public, and private, and will get a better idea of the plants shown than from any description that could be written.

The secretary of the club has received several communications endorsing the delegates' meeting to be held on Tuesday afternoon, and all indications point to the success of the meeting.

Mr. J. H. Dunlop is kept busy locating those who wish to engage hotel accommodations beforehand, and Mr. Thomas Mantion is rushing things in the trade exhibit department, fresh applications for space coming in every day. E.

News Notes.

PAOLA, KANS.—A. Roth has added a new house 16x60.

PETERSBURG, ILL.—W. T. Stephenson is building a new house 50x14.

DAVENPORT, IOWA.—F. G. Bahr is adding two new houses 20x60 each.

CLEVELAND.—Mrs. James Eadie and son left for a trip to Scotland July 18.

OSKALOOSA, IOWA.—The Kemble Floral Co. has added four new houses 20x100 each.

CLEVELAND.—Mrs. E. G. Campbell, the florist, was married to Charles H. Wilson July 29.

BETHLEHEM, PA.—Florist Jacob A. Fries is arranging for the erection of a large new rose house.

GREENVILLE, S. C.—The annual exhibition of the State Horticultural Society will be held here August 13, 14 and 15.

INDIANAPOLIS.—John Gird has started into business at Haughville with one house. He will add several new ones next spring.

BURLINGTON, N. J.—There will be a chrysanthemum show at the new hall of the Women's Christian Temperance Union in November.

LOUISVILLE, KY.—Nauz & Neuner have just completed another greenhouse, 18x100, same to be devoted exclusively to chrysanthemums.

SAN FRANCISCO.—The California State Floral Society at its last meeting prepared a petition to the commissioners of Golden Gate Park, asking that they purchase and turn loose in the park groves a variety of birds of song.

BALTIMORE.—November 10 to 13 inclusive are the dates fixed for the coming chrysanthemum show. The exhibition will be held in the armory of the Fifth Maryland regiment, which hall was secured after many difficulties.

CLEVELAND, O.—A deed was filed with the county recorder July 22 transferring the Glenville greenhouses owned by Agatha B. Long and husband to Robert Addicot and Richard Gamble for \$12,000. A mortgage upon the property for \$11,500 of the purchase price was also filed.

SIoux CITY, IOWA.—Spring trade was very satisfactory. J. C. Remison is building a new house, and will add two more next spring. He is at present in the east looking for points on construction, as he proposes to combine in the new houses every modern improvement.

LOS ANGELES, CAL.—At the meeting of the Southern California Horticultural Society, July 13, Mr. J. C. Harvey contributed a very interesting paper on "Orchids for Amateurs." He named the varieties that were now within the reach of those possessing only moderate means, and gave brief cultural instructions for each class.

GRAND RAPIDS, MICH.—At the annual fair of the Kent County Agricultural Society, to be held here September 14 to 18 next, premiums to the amount of \$222.50 are offered for plants and flowers. Competition is open to all. Copies of the premium list may be had on application to the secretary, Mr. James Cox, Grand Rapids, Mich.

PORTLAND, OREGON.—The Oregon State Horticultural Society held its quarterly meeting at Newburg July 14 and 15. Some very interesting essays were read and discussed. The governor was asked to appoint three commissioners to the World's Columbian Exposition, one each to be appointed by the State Horticultural Society, the State Agricultural Society and the State Board of Commerce. The next meeting will be held at Dallas, October 13 and 14.

ALEXANDRIA, VA.—Business is increasing here. Violets is the principal crop, over 50,000 feet of glass will be devoted to them next winter. J. L. Loose has added eight new iron houses and intends to force some 20,000 clumps of violets. These and four houses of carnations, six of ferns and one (250x30) of La France and American Beauty roses, will form the bulk of his next winter's crop. At his place are to be seen acres of cosmos and early chrysanthemums.

ORANGE, N. J.—Trade here is quiet. Chrysanthemums are doing finely and the prospects are that the exhibition next

November will be the largest and finest show ever held in New York. In Orange and vicinity there are at least 5,000 seedlings being grown and something extra is expected to crop out. T. H. Spaulding is adding two new houses 100x12 each. The fruit crop is immense, the trees breaking down with the weight of fruit.

DETROIT, MICH.—At the Detroit International Fair and Exposition to be held August 25 to September 4, the sum of \$1,271.50 is offered in premiums in the floral department. Of this \$802 is for plants, open to all, \$60 for plants, open to amateurs only, and \$309.50 for cut flowers and floral arrangements. The floral department has been placed in charge of Mr. B. Schroeter, the florist, whose address is corner of Elmwood avenue and Champlain street, and who will supply any information desired and mail premium lists on application.

LOUISVILLE, KY.—Francis Morat's Sons report spring trade as very good with them. Could have sold a good many more bedding plants. Jacob Schulz reports about the same. Mr. Schulz had the finest looking pot plants in the city. F. Walker & Co. had some very nice hydrangeas and sold a great many of them. They are much used here, set in fancy jardinières for porch and doorstep ornaments. Nanz & Neuner report an increase of about 15% in their trade in the last six months. C. W. Keimars has commenced growing orchids, and during the spring showed a good many varieties in his store windows. Geraniums sold this spring at 75 cents, \$1 and \$1.25 per dozen. Mr. Jacob Schulz will meet, nothing preventing, with the florists at Toronto, and Mr. George Morat will very likely accompany him.

KANSAS CITY, MO.—The Western Nurserymen's Association held its semi-annual meeting here July 14. This association, which comprises nurserymen west of the Mississippi river, was organized in this city one year ago. Since then it has met here once, last January. The association now has about forty members. H. D. Kelsey of St. Joseph is president, G. J. Carpenter of Fairbury, Neb., is vice-president and Frank Worcester of Fort Scott, Kas., secretary and treasurer. Notwithstanding the business depression in general trade during the past year throughout the west the nurserymen report a good thriving year's business. Vice-President Carpenter says the nursery business is one business that the McKinley bill has greatly helped. The removal of the duty on sugar greatly increased the demand for fruit trees and the nurserymen have sold half as many again.

Society of American Florists.

Badges for 1891 have been mailed to all whose dues for this year are paid. Members entitled to receive them, but who have failed to, are requested to notify me at once, as the badges have in some instances been lost in the mails.

Those shipping merchandise for display at the trade exhibition, should prepay the freight to Toronto, and thus relieve the Toronto committees of unnecessary work.

WM. J. STEWART, Sec'y.

Our convention supplement will be mailed with next issue. If you want an adv. in its columns, mail copy at once. It must be in hand by the 10th inst. at the very latest.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XXXI.

Been helping themselves to your flowers, have they? Well, such things are provoking, and I don't blame you for proposing to take pretty stringent measures.

Yes, a child may be arrested for a crime of any kind; by which I mean either a felony under the common law, a misdemeanor, that is an act declared to be a crime by the legislature of a state or for a tort or wrong punished by the civil courts.

These children who helped themselves to your roses were quite young, you say. It will make no difference. A hundred years ago England hung a boy of ten for murder. The only question for the court to determine will be: Was the child old enough to know that it was doing wrong in stealing the flowers. That's all. In this country we have punished children even under seven.

Yes, a child may be arrested for slander, if you just as quickly as a grown person. And there is a very ancient precedent for this. You recollect those youngsters who shouted, "Go up, old bald-head, what happened to thee?"

An old-time maxim of the law says: "The privilege of infancy is a shield, and not a sword." That is to say, no child may make use of his lack of years to wrong a fellow being. Of course, if you can't show that he has intelligence enough to discriminate between right and wrong, then he must be treated as a lunatic, and put under restraint.

As you are well aware, infancy in the eye of the law lasts until the child is twenty-one years of age and by a strange process of reasoning a person becomes of age on the day before he is twenty-one.

This is what is known as one of the curiosities of the law.

Now let me say that the law takes no note of the sub-division of a day, hence if we assume that a person is of age on the first minute of his twenty-first birthday, it follows that he is of age on the last minute of the day before, and consequently, as the law refuses to chop up a day, on the first minute of the day before, he is twenty-one. Quite true, we might by pressing this style of reasoning to a logical conclusion, prove that a person is of full age the minute he is born.

But infants have some rights that the law is bound to respect. For instance, a lad over eighteen may legally enlist in the army or navy; if you arrest him for a crime and he signs his bail bond, it may be enforced against him; a boy over fourteen and a girl over twelve may legally enter into a marriage contract without the consent of their parents or guardians. If two infants marry under these ages the marriage would become valid if they afterwards lived together.

An infant, like a married woman, must have the necessities of life and any merchant supplying him could collect the amount either out of the infant's estate or his parents' estate. What necessities are? Well, his board and lodging, his education and care when taken ill, his clothing, but I must confess that flowers would hardly be adjudged a necessary for a young man or woman.

Some dealers have a notion that if they can only secure a written acknowledgment of a debt from an infant it will be binding upon him when he becomes of age. This is quite erroneous. To bind himself for anything not a necessary the

infant must after becoming of age absolutely promise to pay it; all promises made before, no matter whether under seal or not are not worth the paper on which they are written except as refreshers upon the boy's conscience. For this reason when you sell a bill of posies to a young man get his written acknowledgment in some shape or other.

Now the law is really very strict with an infant, although most people think it is not. For instance, if a boy should acquire some property on credit and after he becomes of age should attempt to sell or dispose of it the law would oblige him to pay up the original obligation. So too a boy may lease a building and it would not be binding upon him unless after he becomes of age he should do some act of confirmation, such as collecting the rent. That instant it would become binding upon him.

Now, if a young man should enter your place and order a bill of goods and you thinking him to be of full age deliver them, then in that case, while you might not be able to collect the amount, you could, if you could find the goods, "replevy" them, as we call it. That is, in plain language, by process of law re-possess yourself of them. If the young man should get the flowers by representing himself to be of full age, it would be deceit and he would be liable to arrest, provided always that his youthful appearance did not put you on your inquiry.

No, that may not be done: it would be glaringly wrong for the law to allow an infant to get goods for cash, use them up, and then sue for his money again.

In most states an infant may make a will of personal property, when over eighteen if a boy and sixteen if a woman. But while an infant may take the title to real property, he cannot sell or mortgage until of full age. This must be done by order of the court after full investigation to see if he be just to the infant. Hence estates are often "tied up," as we call it, until some person becomes of full age. You may sue a child, or a child may sue you. This is simply done by appointing a guardian, who conducts the suit for or defends the suit against the child.

A child may be a witness in any kind of law-suit. The old rule was seven years of age, but now it is solely a question of intelligence.

Infants may not be sent to state prisons; they are usually sent to reformatories of some kind. Before asking for a warrant against an infant, always try to make a satisfactory settlement with the parents. Argue with thine adversary quietly, saith the good book. In a few years your children will be old enough to annoy your neighbors, and although I agree with you that they are the best children in the world, yet these delicate human plants often change in a night.

UNCLE BLACKSTONE.

POSTAGE STAMPS should not be used for mailing remittances by mail when any other means can be employed, but when they are used a piece of wax paper should be placed between the glue surfaces, or they are very apt to adhere together and thus become nearly worthless. Nearly every florist has wax paper about the place, so this means of insuring the delivery of the stamps in good condition is right at hand.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

This is the last call for advertisements in the convention supplement.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.00; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in seeds pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

August 25-Sept. 4, Detroit, Mich.—Annual exhibition of plants and flowers in connection with Detroit International Fair and Exposition. B. Schroeter, Supt. Hort. Dept., corner Elmwood avenue and Champlain street.

September 1-4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society. Thomas Vair, Sec'y.

September 8-10, Hartford, Conn.—Fall exhibition Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

September 15-17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 2-7, Louisville, Ky.—Chrysanthemum show Louisville Florists.

November 2-8, New York—Chrysanthemum show Madison Square Garden. J. W. Morrissey, Sec'y, Madison Square Garden.

November 2-5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

November 3-6, Boston.—Chrysanthemum show Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 3-6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club. W. H. Ellis, Sec'y, 133 Mason St., Milwaukee.

November 3-7, Detroit, Mich.—Chrysanthemum show Detroit Florists. Robert Flowerday, Sec'y, 460 John R. street.

November 4-6, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

November 4-6, Wooster, O.—Exhibition Wooster Floral Club. W. A. Porter, Sec'y.

November 5-7, Erie, Pa.—Chrysanthemum show Erie Chrysanthemum Club. H. Tong, Sec'y.

November 5-11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y, 811 North Water street.

November 10-12, Pittsburgh—Chrysanthemum show Pittsburgh and Allegheny Florists' and Gardeners' Club. G. Osterle, Sec'y, 508 Smithfield St., Pittsburgh.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society. James Galvin, Sec'y.

November 10-12, Toronto, Ont.—Chrysanthemum show Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School, Toronto.

November 10-12, New Bedford, Mass.—Chrysanthemum show New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.

November 10-12, Washington, D. C.—Chrysanthemum show Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St. N. W.

November 10-12, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society. Wm. Gamage, Sec'y, P. O. box 155.

November 10-12, Oshkosh, Wis.—Chrysanthemum show Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.

November 10-13, Philadelphia.—Chrysanthemum show Penna. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

November 10-13, Chicago.—Fall exhibition Horticultural Society of Chicago. James D. Reynolds, Sec'y, Riverside, Ill.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.

November 10-13, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.

November 10-14, Indianapolis.—Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.

November 11-12, Worcester, Mass.—Chrysanthemum show Worcester County Hort. Society. Edward W. Lincoln, Sec'y, 5 Oak St.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society. Thos. Vair, Sec'y.

November 11-12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.

November 11-13, St. Louis.—Chrysanthemum show St. Louis Florists' Club. S. Kehrman Jr., Sec'y, 21 South Broadway.

November 11-13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St.

November 11-13, Utica, N. Y.—Fall exhibition Utica Florists' Club. J. C. Spencer, Sec'y.

November 12-14, Buffalo.—Chrysanthemum show Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.

November —, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society. Chas. Wise, Sec'y, Third and Prytania Sts.

November —, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society. Thos. E. Meehan, Sec'y.

November —, New Haven, Conn.—Chrysanthemum show New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 478 Orange street.

November —, Syracuse, N. Y.—Chrysanthemum show Central New York Hort. Society. H. Youell, Sec'y, 228 Beecher street.

November —, San Francisco.—Chrysanthemum show California State Floral Society. Emory E. Smith, Sec'y, 321 Market St.

THIS ISSUE completes volume 6 of the AMERICAN FLORIST and with it we send the annual index. With the index the bound numbers for the year make a very valuable book for reference, and any who do not already save the numbers for this purpose are losing much of the value of the paper. For the convenience of our readers we supply a handy binder, in which the numbers can be placed as

received and thus preserved in good condition until the last number of the volume is received, including the index. The volume is then complete and reference may be quickly made to any matter that has appeared during the year, which would otherwise necessitate a long and tedious search to find. The price of these binders is only 75 cents each. They are strong, serviceable, of attractive appearance and the name of the paper is lettered in gilt on one cover. Every reader ought to have one, and as a new volume begins with next issue now is a good time to start.

YOU HAVE RECEIVED an order from an unknown party, unaccompanied by a remittance and you must fill the order at once or lose the sale. Well, lose the sale! Write the party a letter like the following: "Dear Sir:—We have your favor of the — inst. with order for 300 roses of named varieties from 2-inch pots. As no remittance or reference accompanies the order and as we have not before had the pleasure of any business dealings with you and are without any means of obtaining quick information as to your responsibility, we must ask for cash before shipping this order. We should also be pleased to have you name references at same time, that we may be enabled to place ourselves in a position to extend the usual credit in the future should you see fit to favor us with any further orders, which we hope you will. Very truly yours,
ROE & DOE."

MR. J. T. JAMES, Park Ridge, Ill., sends us a large bunch of flowers of his sweet pea, Nellie James. They are the finest lot of sweet pea flowers we have ever seen; large, beautifully colored, and on long, stout stems. It is not surprising that such flowers always find a market.

SOON we'll be off for our annual reunion, exchange of experiences and observations and freshening up for another year's work. Old acquaintances to be renewed, new ones formed, to give and receive the benefit of knowledge acquired, and all in a hearty thoroughly enjoyable way.

SEVERAL THOUSAND subscriptions expire with this issue. Please renew promptly and thereby confer a favor on the publishers. The date at which your subscription expires is noted on the address label attached to each copy you receive, or to the wrapper in which it is mailed.

FLOWERS from a sport of the "Duchess de Brabant" rose have been sent us by Victor Johnson, Pueblo, Colo. The blooms are much larger and fuller than those of the "Duchess," and of a lighter color. Mr. J. says that it is also a stronger grower.

ADVERTISEMENTS for the convention supplement must be received at this office by next Monday at the very latest to insure insertion.

HAVE you decided to attend the Toronto convention? If not, make up your mind now to go, and you will not regret your decision.

WE HAVE a really good map of the central part of the city of Toronto, which will appear in our convention supplement.

W. J. B.—We cannot print questions regarding small fruit culture, as that is outside of the special field of this journal.

VOLUME 6 is complete with this issue. As will be noted the volume contains over 1,000 pages. Quite a book for \$1.

E. H. HUNT, WHOLESALE FLORIST

79 Lake Street, CHICAGO.

(Successor to Vaughn's Cut Flower Dept.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.
Please mention American Florist.

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All Cut Flowers in season. Orders promptly shipped.
Open until 7 P. M. Sundays and Holidays 12 M.
ALL SUPPLIES. 62-WIRE WORK A SPECIALTY.

A. L. RANDALL, (Successor to C. H. FISK), WHOLESALE FLORIST & DEALER IN FLORISTS' SUPPLIES, 116 Dearborn Street, CHICAGO. OPEN NIGHTS AND SUNDAYS. WIRE DESIGNS IN STOCK. Mention American Florist.

E. J. HARMS, Wholesale Dealer in CUT FLOWERS, And Florists' Supplies. 89 Washab Ave., CHICAGO. Store Open: Nights 8 P. M.; Sundays 2 P. M.

Wholesale Florists LA ROCHE & STAHL N. E. CORNER 131th and Chestnut Sts., PHILADELPHIA. Mention American Florist.

CUT FLOWERS. The Western Trade Solicited. Write or Telegraph.— SMITH FLORAL CO., 77 7th Street S. - Minneapolis, Minn.

WHOLESALE CUT FLOWERS. GOOD ROSES FOR SUMMER TRADE. Write for prices. J. M. GASSER, 101 Euclid Ave., CLEVELAND, OHIO.

H. SCHULTZ & CO., 117 to 123 Market St., - CHICAGO. MANUFACTURERS OF Paper Boxes for Florists. Special long stem Rose Boxes, one 40 x 15 x 3 inches. FOUR IN SET " 11 x 5 x 3 " " 11 x 3 x 3 " " 11 x 4 x 4 " Price, \$3.00 per 100 sets, packed, F. O. B. Chicago. All other styles of boxes for florists. Mention American Florist.

GREENHOUSE HEATING. BY A. B. FOWLER. Explains fully all the best systems of heating greenhouses by both hot water and low-pressure apparatus. Tells you the points to consider in selecting an apparatus. How to adjust same to various locations; gives the results of the latest scientific ex- periments. Shows how to compute the number of feet of pipe required for a given space; draft and other important matters. It is highly commended by Mr. John Thorpe and others. Postpaid, 75c. Sent on receipt of price. Address, AMERICAN FLORIST, CHICAGO.

Wholesale Markets.

Cut Flowers.

Roses.....	2.10 @ 4.00
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Street near.....	.50 @ 1.00
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Pink and lilacs.....	.50 @ 1.00
Asparagus.....	.50 @ 1.00
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PHILADELPHIA, AUG. 3.

Roses, Beauties.....	5.00 @ 10.00
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" Mermets, Brides.....	5.00 @ 10.00
" Niphetos.....	5.00 @ 10.00
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" Marie Guillots.....	5.00 @ 10.00
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Tuberose.....	5.00 @ 10.00
Sweet peas.....	5.00 @ 10.00
Adiantum.....	5.00 @ 10.00
Smilax.....	5.00 @ 10.00

NEW YORK, AUG. 3.

Roses, Gontiers, Niphetos.....	1.00 @ 2.00
" Perles, Gontiers.....	1.00 @ 2.00
" Niphetos.....	1.00 @ 2.00
" Mermets, Brides.....	1.00 @ 2.00
" La France, Albany.....	2.00 @ 4.00
" Beauties.....	2.00 @ 4.00
Carnations.....	6.00 @ 12.00
Smilax.....	6.00 @ 12.00

CHICAGO, AUG. 3.

Roses, Am. Beauties.....	5.00 @ 10.00
" La France, Albany.....	5.00 @ 10.00
" Niphetos.....	5.00 @ 10.00
" Brides.....	5.00 @ 10.00
" Mermets.....	5.00 @ 10.00
Carnations, long.....	5.00 @ 10.00
" short.....	5.00 @ 10.00
Sweet peas.....	5.00 @ 10.00
Adiantum.....	5.00 @ 10.00
Smilax.....	5.00 @ 10.00
Tuberose, long.....	1.50 @ 2.00
" short.....	1.00 @ 1.50

WM. J. STEWART, Cut Flowers & Florists' Supplies — WHOLESALE — 67 Bromfield Street, BOSTON, MASS. Mention American Florist.

GEO. MULLEN, WHOLESALE FLORIST. Florists' Supplies Always in Stock. 17 CHAPMAN PLACE, (Off School St., near Park House), BOSTON, MASS. Orders by Mail, Telegraph, Telephone or Express promptly filled. Mention American Florist.

WELCH BROS. WHOLESALE FLORISTS 165 Tremont St., BOSTON, MASS. We make a specialty of shipping choice Roses and other flowers, carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order. Mention American Florist.

N. F. MCCARTHY & CO. Wholesale Florists AND JOBBERS IN FLORISTS' SUPPLIES. 1 Music Hall Place, BOSTON, MASS. Also entrance from Hamilton Place through Music Hall. We keep a large supply of Fancies and Carna- tions always on hand. Return telegrams sent immediately when unable to fill orders. AUCTION SALES OF PLANTS SPRING AND FALL. Mention American Florist.

WHOLESALE CUT FLOWERS AND FLORISTS' SUPPLIES. THE WISCONSIN FLOWER EXCHANGE, 123 Mason Street, MILWAUKEE, WIS.

Please mention the AMERICAN FLO-
RIST every time you write any of the
advertisers on this page.

W. F. SHERIDAN, Wholesale and Commission Dealer in CUT FLOWERS, No. 32 W. 30TH ST., NEW YORK. Orders to be shipped will receive prompt attention. Mention American Florist.

FRANK D. HUNTER, WHOLESALE DEALER IN CUT FLOWERS 51 West 30th St., NEW YORK. Mention American Florist.

JOHN YOUNG, WHOLESALE FLORIST 53 WEST 30TH STREET, NEW YORK.

A. S. Burns. J. I. Raynor. BURNS & RAYNOR, WHOLESALE FLORISTS, 11 West 28th St., NEW YORK. Mention American Florist.

C. STRAUSS & Co. GROWERS OF CUT FLOWERS. — WHOLESALE ONLY. — SPECIALTY—Filling Telegraphic Orders. WASHINGTON, D. C.

ELLISON & KUEHN, — WHOLESALE — FLORISTS, 1122 FINE STREET, ST. LOUIS, MO. A complete line of Wire Designs.

CUT SMILAX At Summer prices—15 cents. Quality first class. Shipped on shortest notice. Telephone No. 15. JOS. E. BONSALE, SALEM, OHIO.

F. A. RIECHERS & SOHNE, Act-Ges, Import and Export Nurseries, HAMBURG, GERMANY. Specialties in Lilies of the Valley; Azaleas, Cam- ellias in sorts, best varieties in Palms and Dwarf Roses. Free Wholesale Catalogue on application.

HARDY CUT FERNS MOSS (SPHAGNUM AND GREEN SEED. BOUQUET GREEN AND FESTOONING of all kinds—in any amount, always on hand. HARTFORD & NICHOLS, 18 Chapman Place, BOSTON, MASS.

RECEIVER'S SALE. Offers received for the following stock in fine condition. A RARE CHANCE TO GET GOOD STOCK CHEAP. Papa Cactus, 1,200; La France, 300; and Mer- mets, 850 of each; Albanies, 300; Safranos and Ron- Silences 250 of each; Polyanthus, 75. The above in 4-inch pots, 400 Jacks in 6-inch pots. Magna Charta, Capt. Christy, Glorie de Dijon, 300 in 2-in. pots named; mixed, 600 in 3 in. pots, good strong plants. All of the above are strong, healthy stock, raised for our own use. Address F. W. SOULIARD, 1441 Corcoran St., WASHINGTON, D. C.

The Good Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTLETT, Lawrence, Kan., president; A. L. Post, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

ANOTHER MODEST MAN.

The modesty of the seedman is almost proverbial; here is a Rockford, Ill., sample from the *Mirror*, of that city, regarding a new government building at that place:

In an interview with R. H. Shawway, the well known seedman, who is a very profitable partner of Uncle Sam's postal system, our reporter gleaned the following as indicative of where he thought the new government building should go. He said:

"I have spent some time to-day in consultation with Colonel Lawler and Governor Ingalls. A very in regard to the location of the public building. Being the largest patron of the government in Rockford, it was on the proper and fit manner that they should consult with me on that matter."

"The weight of my mail matter sent through the office is fully 75,000 pounds per year, on which I pay 8 cents per pound, amounting to \$6,000 per year, which is required to be paid annually, besides receiving mail matter that has paid \$3,000 in postage. I also paid the government last year \$1,000 in import duties; so you see, as I said, it is only proper that they should have my views on the subject, as the total amount the government receives from my business amounts to \$10,000."

"In the first place, taking a purely business view of it, the building should be located on the east side. I own property on both sides of the river, and as far as enhancing the value of my property goes I had as soon see it built on the west as on the east side. But for the convenience of my own large business, which in the busy season amounts to the receipt of over 2,000 letters per day, necessitates a special delivery, I want to make one load of it and deliver once a day, for this reason, I say, and also for the convenience of my office in delivering it. I think the building should go on the east side. I will say also that I present daily to the postoffice for delivery to my office orders and pay bills for payment, which necessitates considerable travel to go with them to the west side."

W. R. BISHOP, of Burlington, N. J., has assigned.

BEAN AND ONION seed crops in central eastern Michigan are reported fair.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

CONVENTIONS supplement advertisements must be received by next Monday at the latest to be sure of insertion.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Claims must accompany orders. Want ads. not admitted under this head.

SITUATION WANTED—By florist, grower of cut flowers and greenhouse plants. References. G. C. care American Florist, Chicago.

SITUATION WANTED—By a thoroughly competent rose grower, 23 years experience in cut flowers and plants for the wholesale trade. Address: N. C. & A. E. care American Florist.

SITUATION WANTED—By a first class grower and florist. Married, thoroughly experienced in all branches. Good references. Address: G. C. care American Florist, Chicago.

SITUATION WANTED—By a young man of 20, in a greenhouse, floral store or park. Have worked at general greenhouse florist four and a half years. Can give well recommended. Address: B. care American Florist, Chicago.

SITUATION WANTED—As florist and grower; age 22; been in business 10 of my own years. For references apply to Peter Henderson & Co., New York City. Address: A. C. MATTHEWS, 10 East Main Street, Middlebury, N. Y.

SITUATION WANTED—By an experienced gardener, either private or commercial. Fully understands the cultivation of rose, carnations and geraniums. Can furnish first class references. Address: C. D. care (encl. box 1), Framingham, Mass.

WANTED—Good second-hand boiler and piping to heat a house 10,000. Address, stating price, A. 107th, Plaza, Kans.

WANTED—Second-hand Saddle boiler in good order; also Coll. boiler. Address: CARL BEERS, Bangor, Maine.

WANTED—Assistant Florist, one who understands working roses under glass. E. H. RUSSELL & Co., Richmond, Va.

WANTED—Young, single man, who understands flower gardens and general work in nursery place. J. H. WINDSOR, Des Moines, Iowa.

WANTED—Florists, dealers in florists' supplies and others to send catalogues and price lists to FLORETT, 10447, Lincoln Road, St. Louis, Mo.

WANTED—Practical, experienced man, to assist in greenhouse, German protected, etc., wages and recommendations. Steady place. CARL BEERS, Bangor, Me.

WANTED—A second-hand No. 22 Hitchings base burning water heater with expansion tank, must be in good order, and cheap for cash. JAMES H. SMITH, Miami, Ohio.

WANTED—A thoroughly competent rose grower, capable of managing a large establishment. Apply: HORTICOLE, Grand Central Hotel, New York City.

WANTED TO RENT—For a term of years, a florist business to sell, from 100 to 1,000 feet of glass, good repair. Address: G. H. G. care American Florist, Chicago.

WANTED—A working florist with \$800 as equal partner in place of 1,000 feet of florist, well stocked. For all particulars address: J. JACKSON, cor. Gates and Grand Aves., Jersey City, N. J.

WANTED—A man who has been successful in the management of a first class horticultural establishment, including a knowledge of floristry. Apply: HORTICOLE, Grand Central Hotel, New York City.

WANTED—The address of a carnation grower who will be able to supply from 500 to 1,000 first class flowers daily. No second class flowers wanted. Send names of varieties you can supply. Address: W. E. care American Florist, Chicago.

WANTED—A first class floral designer and decorator of ability and good address for a cut flower and plant trade. Address stating experience, particulars and wages expected. J. A. PETERSON, 41 W. 4th St., Cincinnati, O.

WANTED—Florist artist. Position will be vacant October 1st. Must be skillful, quick and of pleasing address. A good situation for a good man, none other need apply. Give reference and state salary expected. Address: A. M. & J. B. MURDOCH, Pittsburg, Pa.

WANTED—First class man to take charge of a private place. Must be well up in all branches of his profession. Will be furnished good house, spare vegetables in their season and two quarts of milk daily. Must board men in his employ. Address giving previous experience, references, nationality, age, size of family and wages desired. Address: SAMUEL THORPE, Millbrook, Dutchess Co., N. Y.

FOR SALE—Foster's six section hot water boiler. J. ENOS DICKERMAN, Chas., Maine.

FOR SALE—A very choice collection of orchids; also some choice chrysanthemums. Apply to C. R. WILLIAMS, Galewood, Cook Co., Ill., or room 602 Rand-McNally Building, Chicago.

FOR RENT—Eight greenhouses, 100 feet each, in good condition; heated by steam. Stock at valuation. Beautiful place and good residence. Address: FLORIST, 120 Euclid Ave., Cleveland, O.

FOR SALE—Seven greenhouses in Chicago, well stocked with general line of florist stuff. Four year lease of ground. Heated with hot water. Will sell for \$2,000 each. Address: H. R. care American Florist, Chicago.

FOR SALE—Six thousand feet Hitchings in pipe, nine foot lengths, at 5 cents. Also four Hitchings boilers, two No. 1 and two No. 2. All in first class condition. Address: C. A. REESER, Springfield, Ohio.

FOR SALE—A BARGAIN—On easy terms, my residence and greenhouses, with all the stock in a five western town of 3,000 inhabitants; good trade and business growing; set the trade of surrounding country and several towns. Ill health and incapability to manage the business are my reasons for selling. Address: X. care American Florist.

Steam Heater for Sale. No. 6 FURNACE SURFACE BOILER, used but three months.

Geo. HINMAN, ATLANTA, GA.

TO LET ON LEASE. For a term of years, one of the Largest and most Complete Greenhouse establishments in the West. For particulars, apply to:

HORTICOLE, Grand Central Hotel, New York City.

WANTED. To buy for cash, a No. 5 or 6 second-hand Weathered Boiler, in good order.

Chas. Burnmeister, 599 Second Ave., MILWAUKEE, WIS.

FOR SALE. 6 1/2 acres, 3,000 feet of glass, fine house, barn, sheds, tenement house, and cold storage; all buildings new; six miles from Grand Rapids; arlesian well yielding 200 bbls. daily of the finest water. Price, \$7,000. Address:

THOS. L. BROWN, Grandville, Mich.

FOR SALE AT A BARGAIN. Through sudden illness a good business in a thriving western town; 3,500 feet of glass, well stocked with everything needed for the coming season's trade. Profit, proofs for the past season \$1,033. The property includes a handsome house of 3 rooms, a large barn to match, wagon-shed, etc., five lots on one of the best residence streets, near depot and electric cars; supplied with city water, lighted all through with electric lights; heated by steam. Nearly two-thirds of purchase money can remain at 6 per cent. Address:

WESTERNER, care American Florist.

FINE FERNS. PTERIS CRITICA ALBA LINEATA

ONYCHIUM JAPONICUM, ADIANTUM PUBESCENS,

And other varieties.

Strong plants, 2-inch pots, \$4 per 100; \$35 per 1,000

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SPECIAL LOW PRICES ON

Lilium Harrisii, Longiflorum, Candidum, Roman Hyacinths, Paper White Narcissus, and all other kinds.

DUTCH HYACINTHS, TULIPS, CROCUS, SPIRÆA, LILY OF THE VALLEY, AZALEA INDICA, ROSES, ETC., ETC.

Wholesale price list on application to HULSEBOSCH BROS., P. O. Box 3118, NEW YORK CITY.

The only Dutch Bulb Growers of whom there resides a member in New York, to conduct the business, so that we can be reached always.

FOR SALE—A very choice collection of orchids; also some choice chrysanthemums. Apply to C. R. WILLIAMS, Galewood, Cook Co., Ill., or room 602 Rand-McNally Building, Chicago.

FOR RENT—Eight greenhouses, 100 feet each, in good condition; heated by steam. Stock at valuation. Beautiful place and good residence. Address: FLORIST, 120 Euclid Ave., Cleveland, O.

FOR SALE—Seven greenhouses in Chicago, well stocked with general line of florist stuff. Four year lease of ground. Heated with hot water. Will sell for \$2,000 each. Address: H. R. care American Florist, Chicago.

FOR SALE—Six thousand feet Hitchings in pipe, nine foot lengths, at 5 cents. Also four Hitchings boilers, two No. 1 and two No. 2. All in first class condition. Address: C. A. REESER, Springfield, Ohio.

FOR SALE—A very choice collection of orchids; also some choice chrysanthemums. Apply to C. R. WILLIAMS, Galewood, Cook Co., Ill., or room 602 Rand-McNally Building, Chicago.

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Freesia, L. Harrisii, Roman Hyacinths, L. Candidum, Home-grown.

OUR MOTTO: "ALL FLORISTS That New Rose Mme. Pierre Guillot, fine 3 1/2-inch stuff, at \$20.00 per 100, a small surplus only. Canna Madam Crozy, each 75 cts. Spaghnum Moss, for August, 10 lbs \$12.00. Cane Stakes, 3,000 for \$14.00."

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Roman Hyacinths, Paper White Narcissus, Lilium Candidum, Etc., from
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NOW READY.

LILIAM HARRISII and **LONGIFLORUM**, direct from the growers in Bermuda, warranted true and strictly prime. Per 1000 Per 100
 Size, 5 to 7 inches in circum. . . \$40.00 \$5.00
 Size, 7 to 9 " " " 65.00 7.00
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FRESIA refracta alba, June delivery, Largest size, selected bulbs only, 9.00 1.00
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CALLAS, Dry Roots, Extra large, selected, 80.00 9.00
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CHINESE NARCISSUS, Oct. delivery, Extra large, selected bulbs, . . . 75.00 9.00
LILY OF THE VALLEY, Nov. delivery True Berlin or Hamburg pipes, 3 years old, extra strong in cases of 2,500, \$9 per 1000. Special price on large lots. The above quotations are subject to advance later in the season.

ROSES, CLEMATIS, AZALEAS, RHODODENDRONS, Etc., imported to order from Holland (Boskoop), France or Germany, at lowest prices. For fuller particulars, see price lists, which will be mailed free to applicants. * Estimates cheerfully given.

Address **J. A. DE VEER,**
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BULBS. BULBS. BULBS.

CHINESE NARCISSUS.

Order Now if you wish to secure BEST GOODS at Lowest Rates.
AURATUM, LONGIFLORUM, RUBRUM, KRAMERI, ALBUM, ETC. CALIFORNIA BULBS.

We guarantee you best stock at the most reasonable rates if ordered now.
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FINE, TRUE STOCK.
 SPECIAL LOW PRICES.

PANSY AND PRIMULA SEED.

New crop seed now ready. Try us on these.

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Supply the trade with all

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LILIUM HARRISII.

TRUE BERMUDA EASTER LILY.

READY AUGUST 1st.

Our bulbs are the finest and best selected that the "Island" produces. Specially grown on contract for our personal sales, and STRICTLY TRUE.

Circumference of Bulbs. Per 100 Per 1000
 SELECTED, 4 TO 5 INCHES. \$ 3.50 \$30.00
 5 TO 7 INCHES (The best size for florists). 5.00 45.00
 EXTRA, SELECTED, 7 TO 9 INCHES. 7.00 65.00
 VERY LARGE, 9 TO 12 INCHES. 12.00 105.00
 25 Bulbs billed at 1000 price. 250 Bulbs billed at 1000 price.

For terms of credit &c., see our Bulb List free to all. Send a list of your wants for special prices.

FRESIA REFRACTA ALBA, now ready, AMERICAN GROWN, large bulbs, \$1.00 \$5.00
 Extra Selected, large bulbs. 1.25 10.00

Florists Using LILY OF VALLEY, BERLIN PIPS, ROMAN HYACINTHS, NARCISSUS, DUTCH HYACINTHS, TULIPS, &c. will do well to send lists for our Special Offers. * THE QUALITY OF OUR BULBS IS UNEXCELLED.

Z. DE FOREST ELY & CO.,
 WHOLESALE IMPORTERS OF BULBS,
 1301 and 1303 Market Street, PHILADELPHIA, PA.

HERMAN BUDDENBORG,

HILLEGOM, near Haarlem, HOLLAND,

WHOLESALE GROWER OF ALL KINDS OF

INTENS BULBS AND ROOTS

Intends all intending purchasers that it will pay them to write or his wholesale price list. Special prices will be given to large importers on application. Prime quality at the very lowest prices is guaranteed by

HERMAN BUDDENBORG,

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HILLEGOM, NEAR HAARLEM, - - - HOLLAND.

Mention American Florist.

SPECIAL OFFER OF DUTCH BULBS. FORCING HYACINTHS.

	SINGLE.	Per 100	Per 10,000	DOUBLE.	Per 1000	Per 10,000
Red and Rosy	15.00	\$15.00	\$150.00	Red and Rosy	\$2.10	\$21.00
Dark Red	15.00	170.00	1700.00	Dark Red	20.00	190.00
White	15.00	210.00	2100.00	White	30.00	190.00
Pure White	20.00	250.00	2500.00	Pure White	30.00	225.00
Blue	15.00	170.00	1700.00	Blue	16.00	150.00
Yellow	30.00	225.00	2250.00	Yellow	40.00	350.00
All Colors	15.00	170.00	1700.00	All Colors	18.00	170.00

FORCING TULIPS. * Artus, La Reine, Kaiserkrone, Yellow Prince.

I will sell these four sorts, Choice Forcing Tulips, in equal quantity, per thousand, \$12.50. * For other sorts see Catalogue.

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Largest Growers of

HYACINTHS, TULIPS, NARCISSUS SPIRÆA, LILIES OF THE VALLEY, ETC.

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OUR NEW TRADE LIST NOW READY.

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E. H. KRELAGE & SON, HAARLEM, HOLLAND,
 have published their new Wholesale Trade List of all sorts of bulbs and tuberous rooted plants, American edition (No. 505), which is sent to the trade only, on prepaid application.

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Every Florist, Nurseryman and

Seedsmen should have one.

AMERICAN FLORIST CO., Chicago.

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Lock the door before the horse is stolen. Do it NOW!
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 Saddle River, N. J.



TRY **DREER'S**
GARDEN SEEDS

Plants, Bulbs and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.
HENRY A. DREER,
 Philadelphia

Butted Glass.

I am thankful for the article on butted glass on page 974. I am building a house, and was intending to butt the glass—was to commence glazing next week. The words, "If you are in doubt as to it, don't do it," settled the doubt for me and will not butt the glass. Let us hear more about it.

Petersburg, Ill. W. T. STEPHENSON.

WE HAVE received from the Herendean Manufacturing Co., Geneva, N. Y., a copy of their new book on greenhouse heating by steam and hot water. It contains much useful information on the subject of greenhouse heating, and includes several very handy tables showing the number of feet of pipe required to heat a given cubic space to a stated temperature under varying conditions. There are also some very useful instructions in piping the houses for either steam or hot water. The book is sent free on application to the address above given.

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The Nomenclature committee will meet in session at the Queens Hotel, Toronto, at 9 A. M., the day before the S. A. F. convention takes place in that city next August.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

TO FLORISTS

Throughout the United States: The subscriber is now closing up his entire nursery and florist business. He has to round up numerous plants of which are 15,000 shrubs large and small. Will sell these shrubs \$5.00 to \$10.00 per 100; small \$5.00 per 100. *Dracena terminalis*, *D. brasiensis*, *Lakelandia*, *D. p. bonica*, 15-18, \$2.00 per 100. *Gardenia floridensis*, 5-7, \$2.00 per 100. *R. R. KOSTER*, Babylon, N. Y.

BOUVARDIAS, good clean stock, 3-inch pots, choice varieties.....\$5.00

SMILAX, strong..... 5.00

BRIDE and MEMPHIS ROSES, strong..... 6.00

PARFUMING GRANDE, strong..... 6.00

McKEE & COLE, Battle Creek, Mich.

NOW READY. LAST CALL.

ASTERS, mixed and in varieties. COSMOS, large flowering. MIGNONETTE, best varieties.

LOBELIA C. P. C., strong, 2-inch pots.

Send 10 cents for samples and get prices and particulars. W. T. STEPHENSON, Petersburg, Ill.

COLEUS Verschaffeltii, Golden Beller, Golden Verschaffeltii, Golden Beller, 2-4 inch pots, \$2.00 per 100; \$2.50 per 100. From 3-4 inch pots, \$2.00 per 100. Large stock plants \$5.00 per 100; \$1.00 per 100. All orders should be accompanied by money, otherwise shipped C. O. D.

JOHN RECK, Bridgeport, Conn.

PANSIES.

PANSIES THAT ARE UP. No need to worry over getting the seed to come up, it is up and ready to plant when I send them.

It is not only the plants that are up, the strain is up also; up to, and a goodly number of my customers say, above any strain in the market. The price is down, considering the quality of the strain, seed as good would cost you about as much per 1000 plants. My price is \$5.00 per 1000, or in lots of 2,500 and over, \$4.50 per 1000.

SEND FOR LIST AND SHORT PAPER ON CULTURE.

PLANTS READY AUGUST 20th TO DECEMBER 1st.

SMILAX.

Plants ready July 1st and later. These will be nice and stocky, and ready to go right ahead. There is some 40,000 here; let me have a chance to fill your order.

Send 10 cents for samples and get my prices before ordering elsewhere.

L. E. 338.

ALBERT M. HERR, LANCASTER, PA.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,

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New and

Rare Plants

Hardy

Plants.



ORCHIDS

PALMS,

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CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

A FRESH CONSIGNMENT OF MEXICAN ORCHIDS

Such as *Lelia anceps* (winter bloomer), *Lelia alaba*, *Cattleya citrina* (extra fine), *Epilobium vittatum majus*, *Odontoglossum aureum* (true), *Odontoglossum maculatum*, *Oncidium trichorynchum*, etc., etc., at very low prices.

Write for price list.

FREDERICK MAU, South Orange, N. J.

P. O. Box 322.

ORCHIDS.

The finest stock in the WORLD. Nearly five acres devoted to their culture.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

100 FOR \$25.00.

Orchids.

BRACKENRIDGE & CO.,

Established 1854. Govanstown, Md.

Mention American Florist.

THE FAMOUS

Azalea Vervaniana.

Having made a contract with Mr.

B. Maenhout van Melle, of Ghent,

Belgium, to handle this beautiful

variety, we can offer them by the

thousands at very reasonable rates.

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AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

Specialties in Seasonable Flower Seed

FOR FLORISTS. Trade

PANSY SEED. Per oz. pkt.

Trimardeau or Giant, very fine, mixed, \$2.50 \$.25

Odier or Giant Bloetied, extra fine, 4.00 \$.25

Cassier's, blotched, fine, 1.00 \$.25

Bugnot's new spotted, large flowering, 6.00 \$.50

Emperor William, Lord Beaconsfield, 1.50 \$.25

Snowflake, Golden Yellow, Victoria, 2.00 \$.25

Red and twenty other separate named sorts, each, 1.50 \$.25

Wair's Fair, mixed, extremely rare, 2.00 \$.25

CALCEOLARIA—Hybrida grandiflora, choicest mixed, .50

CINERARIA—Hybrida grandiflora, choicest mixed, .50

HOLLYHOCK—Very choice flowering sorts, white, yellow, pink, scarlet and mixed, each, 2.00 \$.25

SMILAX—select grown stock..... 1.00 \$.25

PRIMULA—Sensilis, fringed, extra fine mixed, .25

Sinensis, fringed, fine, sep. colors, extra fine, .25

Peta Leaved, extra fine mixed, .25

fine, separate colors, each, .25

One-half and one-fourth ounce at same rate.

Write for my complete Seed Catalogue.

H. W. BUCKBEE, Rockford, Ill.

REALLY GOOD SEEDS.

SPECIAL FOR FLORISTS.

A 1 Giant Pansies, 1/4-oz. \$1.50; per oz. \$5.00

Calceolaria, prize strain, trade pkt. 1.00

Cineraria grandiflora, special " 1.00

Stock, double white, very dwarf, " .50

Primula Fimbriata, mixed, " 1.00

" double white, per 100 seeds, 50 cts.

" double red, " 80 cts.

JOHN THORPE,

PEARL RIVER, N. Y.

Terms Cash.

NEW CROP

Primula Obconica seed..... per 1000, \$5.50

" Floribunda..... 1.00

" Obconica, 2-inch pot plants..... per 100, 3.00

" Floribunda, 2-inch pot plants..... 4.00

" Chinsens, white and pink..... 4.00

Begonia Rex..... per 100, \$5.50; \$10 and 15.00

Hydrangea Red Branched, per doz. \$3; per 100, 25.00

I. N. KRAMER & SON, Marion, Iowa.

E. G. HILL & CO.,

RICHMOND, INDIANA.

Send for our January Trade List. A full line of

the finest Novelties from prominent growers.

Complete stock of new strains.

ROSES, CARNATIONS, BEGONIAS, CHRYSANTHEMUMS, ETC., and the very best imported

FLOWER SEEDS for Florists.

E. G. HILL & CO., Richmond, Indiana.

CHRYSANTHEMUMS.

Best market sorts in 30 varieties from 3-inch

pots, \$3.00 per 100.

SMILAX, from 2 1/2-inch pots, \$1.50 per 100; \$12.00

per 1000.

Address J. G. Burrow,

FISHKILL N. Y.

Mention American Florist.

FLORISTS' SEEDS FOR PRESENT SOWING.



VAUGHAN'S INTERNATIONAL PANSY.

NEW DWARF MARGUERITE CAERNATION, for winter blooming. 200 seeds, 25c.; 1000 seeds, \$1.00.

VAUGHAN'S INTERNATIONAL PANSY MIXTURE comprises all the very best German, English and American strains, together with the Giant Bugnot, Cassier and Improved Trimardeau Pansies, and is undoubtedly the best mixture for florists. Pkt. 50c.; 1/2 oz. \$1.50; oz. \$3.00.

GIANT CASSIER, a choice variety of colors. Pkt. 25c.; 1/2 oz. \$1.00.

GIANT BUGNOT, the finest strain in existence. Pkt. 50c.; 1/2 oz. \$1.00; 1/4 oz. \$1.75.

GIANT TRIMARDEAU, WHITE, flowers very large with violet center. Pkt. 50c.; 1/2 oz. \$1.

GIANT COALBLACK, very large and of fine form. Pkt. 25c.; 1/2 oz. 75c.

GIANT TRIMARDEAU IMPROVED, contains all the new shades and colors and will therefore give entire satisfaction. Pkt. 25c.; 1/2 oz. 60c.; 1/4 oz. \$1.00.

GIANT PANSY MIXTURE, this mixture comprises all the above Giant Pansies. Pkt. 25c.; 1/2 oz. 60c.; 1/4 oz. \$1.00.

VAUGHAN'S PREMIUM PANSY MIXTURE, a mixture of over 30 different shades, containing many of the most popular and odd colors. Pkt. 25c.; 1/2 oz. \$1.; 1/4 oz. \$3.25; oz. \$6.

CHICAGO PARKS BEDDING PANSY MIXTURE, White, Black, Yellow, Emperor William, Striped, Snow Queen, Golden Gem, each, per 1/2 oz. 25c.; 1/4 oz. 40c.; oz. \$1.00.

CHICAGO PARKS BEDDING PANSY MIXTURE, very choice. 1/2 oz. 30c.; oz. \$1.40; for \$3.

CALCULATOR HYBRIDA GRANDIFLORA, tigered and self-colored, finest mixture, pkt. 50c.

HOLLYHOCK, best double white, pink, flesh, yellow, crimson and mixed, each, pkt. 25c.

CARNATION VIENNA DWARF, a very good strain. Pkt. 15c.; 1/2 oz. 50c.

VAUGHAN'S INTERNATIONAL PRIMULA MIXTURE, contains the most striking and brilliant colors. Pkt. 50c.

CINERARIA HYBRIDA GRANDIFLORA, VAUGHAN'S INTERNATIONAL MIXTURE, the finest

large-flowering sorts, dwarf and semi-dwarf mixed. Pkt. 50c.

GLOXINIA HYBRIDA, best horizontal, upright, tigered & spotted in finest mixt. Pkt. 50.

CYCLAMEN PERSICUM GIGANTEUM, largest flowers and best sorts mixed. Pkt. 50c & \$1.

STOCKS, BROMPTON AND EMPEROR WINTER, white, pink and crimson, each Pkt. 25c.

SMILAX SEED, new crop, oz. 75c.; 1/2 lb. \$2.50.

WALLFLOWER, best double mixed. Pkt. 25c.

MIGNONETTE MACHET, best for pots. Pkt. 10c.; oz. 60c.

200 seeds, 25c.; 1000 seeds, \$1.00.

J. C. VAUGHAN, CHICAGO.

Pansy Seed.

CHOICEST QUALITY AND STRAINS OBTAINABLE.

	1/2-oz.	1-oz.	1 1/2-oz.	1-lb.-oz.	pkt.
Trimardeau, choicest French mixed, unsurpassed in brilliancy of color and size of flowers, some measuring from 3 to 4 inches across, per lb., \$25.00; per 1/2 lb., \$15.00.	\$2.50	\$1.50	\$1.00	\$7.75	\$5.25
Same, golden yellow	3.00	2.00	1.50	1.00	75c.
Same, purple	3.00	2.00	1.50	1.00	75c.
Odier, or Imperial, Prize Pansies, 3 and 5 bloated, extra.	4.00	2.50	1.50	1.00	75c.
DE VEER'S CHOICE MIXED, composed of the best strains and varieties of my importation.	4.00	2.50	1.50	1.00	75c.
Bugnot's, new, spotted, large flowering show pansies, somewhat smaller than Trimardeau, but of even more exquisite markings and richer colors, pronounced by many the finest strain produced yet. This variety produces few seeds, and is yet very scarce.	6.00	4.50	3.00	2.00	1.50
Cassier's, 3 and 5 bloated, giant, extra fine.	6.00	4.50	3.00	2.00	1.50
Roemer's, new 5 bloated, giant, producing enormous flowers.	6.00	4.50	3.00	2.00	1.50
Improved Large Flowering, (fine strain), mixed.	1.25	1.00	.75	.45	.30
Black lined golden bronze; white, pure; yellow, pure; each.	.50	.75	.50	.25	.15
Light bronze; dark bronze; Emperor William; blue.	.75	.50	.30	.20	.15
Faust, King of the Blacks, fine for bedding; Lord Beaconsfield, purple.	.75	.50	.30	.20	.15
Mahoeay (rabat); Prince Bismarck, brown and golden bronze marbled; quadricolor; white; yellow; superior quality, mixed; each.	.75	.50	.30	.20	.15
Pine German mixed.	.50	.35	.25	.15	.10
Metecor, novelty of 1891, reddish brown.	.50	.35	.25	.15	.10
Peacock, beautifully blotched.	.50	.35	.25	.15	.10

CINERARIA, Hybrid, good mixed, 1/4 ounce, \$1.	Per pkt.	25
" grandiflora, choicest mixed, 1,000 seeds, 75 cents.		50
" grandiflora dwarf, choicest mixed, 1,000 seeds, 75 cents.		50
" grandiflora kermesina, novelty 1891.		50
" choicest double mixed, 1,000 seeds, \$1.		50

PRIMULA, Sinensis, fringed, fine mixed, 1,000 seeds, \$1.	20
" extra mixed, 1,000 seeds, \$1.50.	25
" ten varieties, each.	25
" double fringed, mixed, 100 seeds, 50 cents.	30
" five varieties, each.	50

TERMS CASH. For other Seeds, Fall Bulbs, Florists' Supplies, Imported Nursery Stock, etc., write for Catalogues, if not yet received.

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154 East 34th Street, NEW YORK.

PANSIES.

Plant your frames this fall with PANSIES that will SELL AT SIGHT. You want the BEST if you keep up with the procession. My strain cannot be surpassed for size, color, or substance of flowers. I know my stock will please, and I am prepared for a big rush.

FINE STOCKY PLANTS, once transplanted, \$5 per 1000 by express; 75c. per 100 by mail. Special prices on larger lots. Orders booked now filled in rotation, or on any date desired after August 15.

ALEX. McBRIDE,
ALPLAUS N. Y.

PANSY SEED

Positively as received from F. Roemer.

GIANT FANCY (Improved Cassier).	Per oz.	\$ 7.00
GIANT SHOW (Improved Trimardeau).		6.00
ROEMER'S GIANT (five spotted).		12.00

Trade packets of above, \$1.00 each.

H. WATERER,
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EXTRA PANSY SEED.

Mammoth Sunbeam Strain.

One of the finest and most perfect strains of Mammoth Pansies, extra large extra large extra large of fine form and showy colors. I have obtained this grand strain by high culture and careful selection, and have one of the choicest collections that can be procured. I receive very complimentary letters from my customers of last season. Every florist should sow of it. Per liberal trade pkt. 25c.; 3 pkts. 60c.; 5 pkts. \$1.00.

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GARDINER'S SUPERB CHINESE PRIMULAS.



The Chinese Primula has long been a favorite florist's flower, and it has never been seen in greater perfection than now—some very rare and remarkable varieties having been produced within the past few years. Our strain is from a celebrated European specialist, and is acknowledged to be superior to all other strains now on the market. The many flattering testimonials we have received warrant us in recommending this strain very highly.

100 seeds, \$2.00; 500 seeds, 1000 seeds	
Choicest Fringed (not fern-leaved), beautiful colors.	50 200 3.50
Choicest Fringed (fern-leaved), beautiful colors.	50 200 3.50

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Trade list of special strains Flower Seeds for florists on application.

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New crop seed of those superb strains now ready, in trade packets of 1,500 and 600 seeds respectively, at one dollar each.

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Pansies, Extra.

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Seed, finest mixed. Trade pkt. 25c., 50c., 1.00 Large yellow with dark eye. 25c., 50c., 1.00 Yellow, per ounce, \$5.00; Mixed, per ounce, \$6.00. Plants in any quantity ready Sept. 1, 50 cts. per 100 by mail; \$5.00 per 100 by express.

ADDRESS E. B. JENNINGS, Pansy Grower,
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Postage on Dried Plants and Cut Flowers.

Under date of April 23, the third assistant postmaster general, Madison Davis, sent out the following ruling, informing postmasters and the public "that the act of Congress of July 24, 1888, reducing the rate of postage to 1 cent for every two ounces or fraction thereof on seeds, plants, bulbs, roots and scions" does "not apply either to dried plants or cut flowers. These are still subject to postage at the rate of a cent an ounce." (See U. S. Postal Guide, xiii., 27, for May, 1891.) This ruling should be modified, as the act was, if I am not mistaken, intended directly to benefit botanists in the exchange of botanical specimens, which as dried plants are now excluded from this rate. The botanist of the U. S. department of agriculture has had printed on letter heads that herbarium specimens could be sent at 1 cent for two ounces. The intention of the ruling was to debar the sending of drugs and other merchandise at that rate. The discrimination against cut flowers is also unjust and the ruling could perhaps be changed if those interested would take action in the matter. C. R. ORCUTT.

Fuchsias.

Is there any way by which fuchsias can be kept in a dormant state through the winter without special care or trouble? If cut back well and leaves all removed, will they keep without ventilation in a cellar until time to bring them forward for growing up for spring sales, and if so, at what time should they be brought into the greenhouse to be ready to sell during the last half of May? Wm. F. BASSETT.

If you have anything to sell to florists don't fail to place an adv. in our convenient supplement, to be published with our next issue.

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BRIDES and MERMETS, in 3-inch pots . . . \$ 7.00
" " 4-inch pots . . . 10.00
100 MME. HOSTE, 3-inch pots . . . 7.00

These roses are fine, and so sure are we that they will give perfect satisfaction that they will be sent C. O. D.

N. B.—At the Spring Exhibition of the Pennsylvania Horticultural Society our Mermets, Brides, Gontiers and Niphetos, exhibited by Jcs. Kift & Son, were awarded First Premiums over all competitors.

Remember these plants are A. 1.

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STRONG, HEALTHY PLANTS.
Perles, Mermets, Papa Gontier, Bride, Niphetos, Bon Silene, Souv. d'un Ami, Cook, Mme. Cusin, Mme. Watteville, La France.

2½-inch pots, \$5.00 per 100; \$45.00 per 1,000.
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SMILAX. Good strong plants, \$1.00 per 100; \$25.00 per 1,000.

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Trade list mailed on application.

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75,000 FIELD GROWN ROSES
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Full line Clematis, Shrubs, Hardy Plants, Hardy and Forcing Bulbs, Greenhouse Plants and Roses.

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WELL GROWN STOCK FOR FORCING.

Brides, Papa Gontier, Mermet, Niphetos, Perle des Jardins, Duchess of Albany, Mme. Watteville, Mme. Hoste, Marechal Niel, Safrano, Sunset, and Bon Silene.

This stock is from 2, 4 and 5-inch pots. Plants are strong and have large white roots, and are in splendid condition for immediate planting. Send for sample and special low prices.

Write for my Florist Catalogue of specialties in Flower Seeds.

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NIPHETOS, SAFRANO, MERMET,
BON SILENE, PAPA GONTIER,
3-inch pots, \$7.00; 4-inch pots, \$10.00 per 100.

Send for our Rose Circular. We wish every florist needing Roses to read it. "60

J. L. DILLON, Bloomsburg, Pa.

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Bride, Perle, Mermet, Gontier, Duchess of Albany, Hoste, Sunset, La France, Bon Silene, Wootton, Niphetos, American Beauty, in 2, 3 and 4-inch pots.

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3½-INCH SMILAX,

Full of roots, ready for immediate planting and will make a crop at once.

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2,500 of them at \$30.00 per thousand; \$3.50 per hundred.

Also 400 JACQUES in 4-inch pots, at \$12.00 per hundred.

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2000 left of fine stocky plants, several times cut back, from 2¼-inch pots at,

PER 100 \$2.00
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500 at 1000 rates.

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Several times shaken out, cut back and repotted, making them equal to plants grown in much larger pots; these are of good size, strong, well-rooted and compact; besides a great saving in Express charges over plants grown in larger pots. Send for samples and prices.

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The largest stock in the west, at \$5.00 per 100 to \$1.00, \$2.00 to \$10.00 each. Cereas revoluta, 50c to \$5.00 and 25c each. Cereas longicaulis to \$5.00 each.

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DRACO and AUSTRALIS, 2½-inch pots, \$4.00 per 100; 3-inch pots, strong, 12 to 15 inches, \$5.00; 4½-inch, strong, \$12.00. For other varieties of Dracaenas and Palms, etc., etc., send descriptive catalogue and new wholesale list.

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Kentia Belmorana Seedlings ready for potting.

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very large, all fringed and yellow center; bloom on tall stems thrown well above the foliage.

BEFFLEAVE colors. Plants vigorous growth; will come into bloom early; now ready for 4-inch pots.

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2000 Smilax plants..... \$1.00 per 100; \$15.00 per 1000

400 Strings of Smilax..... \$15.00 per 100 strings

1500 Tuberous Rooted Begonias, 4-inch pots, \$15.00 per 100.

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Sale to Commence Monday Aug. 31, 11 o'clock a. m.,

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JOHN DICK, Sr.,

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The NEWEST are Wanted, too.

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Yours,
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Order now for Fall Delivery,

ITALIAN BLEACHED WHEAT,

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With Patent Ventilated and Perfect Drainage Bottom.



CARD. We beg leave to call your attention to the regular "EXCELSIOR STANDARD POTS. You cannot well afford to be without them, as they are especially adapted for growing Chrysanthemums and all valuable plants.



FIRST CLASS CERTIFICATE OF MERIT
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We still carry in stock a full line of the regular "EXCELSIOR" POTS.

When writing for price list state sizes and quantity wanted.

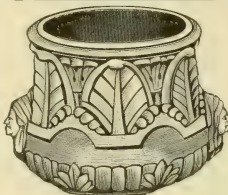
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—AND—

JARDINIERES IN GREAT VARIETY.



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We Follow None, Prize or No Prize.

Our latest improvements in machinery produce a Standard Pot which for lightness, smoothness and durability, has never been equaled. Customers buying of us will

SAVE ONE-THIRD IN FREIGHT.

And to prove this, we give below a table showing number in Crate and **WEIGHT** of same, which speaks for itself:

Size.	No. in Crate.	Weight.
1 1/4 inch.....	3,000	250 lbs.
2 1/4 ".....	2,400	200 "
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3 ".....	1,450	120 "
3 1/2 ".....	1,250	100 "
4 ".....	800	60 "
4 1/2 ".....	600	45 "

It will be seen at a glance, that our pots are one third lighter than formerly, and yet we claim that owing to the superior quality of our clay and improved machinery, they are stronger than any pot in the market, and we frankly ask you to make the test. **SEND FOR PRICES.**

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one dozen 2 1/4 2 3/4 3 3/4 4 5 6 in. pots

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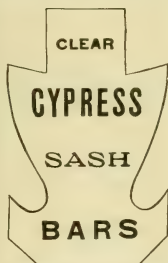
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Importers, Manufacturers and Dealers,
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New Fall Catalogue and Price List will be ready
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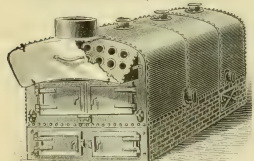
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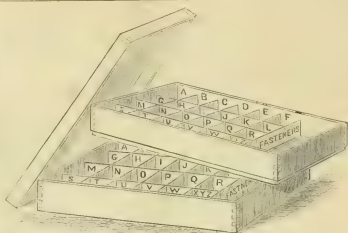
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Boilers made of the best of material, shell, firebox
sheets and heads of steel, water space all around
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With an order for 1000 letters, we furnish a box, such as
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Manufacture THE BEST LETTERS IN THE MARKET.
sizes 1 1/2-inch and 2-inch, \$2.00 per 100. Patent
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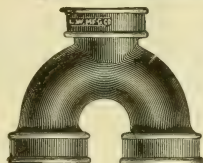
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Large quantities of our Pipe are in use in Green-
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Pipe can be easily put together by any one, very
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Hot-Water Heating, in its Economy and Superi-
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FOR WARMING RESIDENCES, GREENHOUSES, SCHOOLS, HOSPITALS, ETC.

SCRANTON, PA., Mar. 16, 1897.

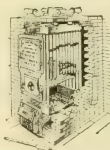
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The **Bolton** in my green-
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I am for hot water first, last and
always; think it much better than
steam.

Yours truly,

Jas. P. Dickson,
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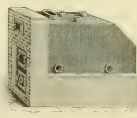
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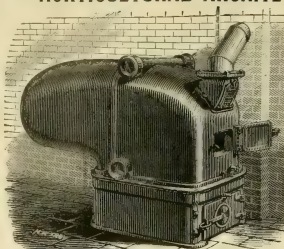
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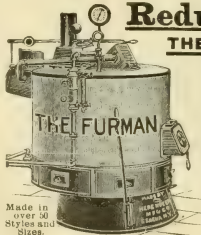
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PLEASE SEND us a report of your spring plant trade as compared with past seasons.

Mr. A. DIMMOCK writes from England announcing his safe arrival. He was among the unfortunates on the steamship Servia.

A PHILADELPHIA paper tells of a dahlia grown by an amateur in that city that has attained a height of 8 feet and 1 inch, is full of flowers and still growing.

A C. O. D. package of cut flowers, on which there was \$2.50 to collect, recently failed of acceptance by E. Kelly, Duluth, Minn., he giving as an excuse that he did not have the cash with which to pay the bill.

THE SAN FRANCISCO Argonaut says that electric light has been employed advantageously on board a West Indian steamer crossing the ocean to keep alive and flourishing certain plants which were being transported for acclimatization.

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